

Appendix C

Noise Assessment Report

BELLE RIVER WIND PROJECT

Renewable Energy Approval Application - Noise Impact Assessment

SP Belle River Wind LP, acting through by its general partner,
SP Belle River Wind GP Inc.

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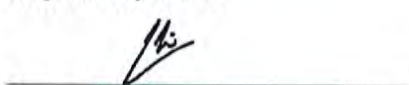
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1 INTRODUCTION

GL Garrad Hassan Canada, Inc. (“DNV GL”) was retained by SP Belle River Wind LP, acting through by its general partner, SP Belle River Wind GP Inc. (the “Proponent” or “Pattern”) to prepare a Noise Impact Assessment (NIA) of the Belle River Wind Project (the “Project”) in accordance with the Ontario Regulation 359/09 (Renewable Energy Approvals [REA] under Part V.0.1 of the Ontario Environmental Protection Act [EPA]) [1]. This NIA also follows the Ontario Ministry of the Environment and Climate Change (MOE) 2008 NPC Noise Interpretation Guidelines [2] (the Noise Guidelines).

The proposed Project is located in Essex County, Ontario, approximately 40 km east of Windsor. The layout being evaluated was provided by the Proponent [3] and consists of 49 wind turbine locations. The current layout has a nameplate capacity of 120 MW. DNV GL notes that the anticipated nameplate capacity of the Project is estimated to be 100 MW. The proposed layout contains five different Siemens wind turbine models. The substation transformer location has been determined and it has been included in this assessment.

The objective of this assessment is twofold:

1. Confirm the sound level limit requirements for the Project by providing an assessment of the existing baseline environmental noise conditions in the vicinity of the wind farm; and
2. Predict the noise levels generated by the Project at all Points of Reception (PoR) and Participants within 1,500 m of the Project turbines.

2 GENERAL DESCRIPTION OF PROJECT SITE

2.1 General characteristics

The area being studied for the Project components is located north of Highway 401. Project components will be installed on privately owned agricultural lots within this area. Energy generated by the Project will be collected via overhead or underground cabling and directed to an on-site substation.

The Project lies on predominantly flat, open, agricultural lands that include various natural features such as waterbodies, wetlands and woodlands, as well as as-built features. Figure 2-1 shows an example of a typical view of the land and features of the study area.

2.2 Land use description

The development pattern is typical of most rural areas in southern Ontario with dwellings built near the roadways. The Project Area is dotted with residential farm houses and related buildings. A few small urban centers exist in proximity to the Project, including Emeryville and Comber. There are several wind turbines in operation in the area. The zoning map index can be found in Appendix A and the comprehensive zoning maps are available on the Town of Lakeshore website [4]. Figure 2-1 presents typical views of the land and features of the study area, including existing wind farms.



Figure 2-1 Sample photo of the Project study area



2.3 Points of reception

PoR locations for the Project, also referred to as receptors, were identified by DNV GL using base data from recent aerial photos and field reconnaissance completed in February 2014, October 2014 and December 2014 to verify locations and building types. The height of each PoR, taken to be 1.5 m, 4.5 m, and 7.5 m for one, two, and three storey houses, respectively, was also noted. All PoR, as per the definition from the MOE Noise Guidelines [2], were considered in this NIA.

The Noise Guidelines [2] generally define a PoR as a house, campground, church, school or other sensitive building that is not located on the same premises as the wind farm, including its turbines and ancillary structures. A PoR can also be located on a vacant lot that has residence as a permitted use. DNV GL has identified Vacant Lot Receptors (VLR) on such lots in a location consistent with the building pattern in the area, as per the O. Reg. 359/09 and the Noise Guidelines.

A residence or VLR located on the same premises as the wind turbine(s) or other Project infrastructure is not a PoR as defined by the Noise Guidelines, and considered a “Participating Receptor” and thus MOE noise limits do not apply.

The coordinates of all receptors and participants are listed in Appendix C and Appendix D, respectively.

3 DESCRIPTION OF POINTS OF RECEPTION

There are 1149 receptors located within 1,500 m of a Project wind turbine or the substation, among which 351 are VLRs. There are 45 Participants within 1,500 m, of which 26 are VLRs.

3.1 Receptor classes

The MOE categorizes PoR into three classes: 1, 2, and 3. Class 1 refers to an acoustic environment typical of a major population centre where the background noise is dominated by the urban hum. These areas are highly urbanized and have moderate to high noise levels throughout the day and night. Class 2 areas have an acoustic environment characterized by low ambient sound levels between 19:00 and 07:00, whereby the evening and nighttime levels are defined by natural sounds, infrequent human activity and no clearly audible sounds from stationary sources (e.g., industrial and commercial facilities). Class 3 areas are typical of rural and/or small communities (i.e., with populations of less than 1000) and an acoustic environment that is dominated by natural sounds with little or no road traffic.

Within the study area the main sources of ambient sound that currently exist include:

- Vehicular traffic on the local concession and side roads, some of which are gravel roads;
- Occasional sounds due to logging and aggregate extraction activities;
- Occasional sounds due to anthropogenic domestic activities; and
- Natural sounds.

Based on these conditions, **all PoR are considered as having a Class 3 acoustic environment.**

3.2 Determination of applicable noise limits

As stated in the MOE guidelines [2], the noise limits for a wind farm are set according to the Noise Guidelines in NPC-205/NPC-232 while taking into account the wind-generated background noise.

For a Class 3 area, the sound level limits as defined in the Noise Guidelines are described in the sections below.

3.2.1 Wind turbine installations in Class 3 areas (rural), wind speeds below 6 m/s

The lowest sound level limit expressed in terms of L_{eq} is: i) 40 dBA; or ii) the minimum hourly background sound level established in accordance with Publications NPC-232/NPC-233, whichever is higher.

3.2.2 Class 3 areas, wind speeds above 6 m/s

The lowest sound level limit expressed in terms of L_{eq} is: i) the wind-induced background sound level, expressed in terms of ninetyeth percentile sound level (L_{A90}) plus 7 dB; or ii) the minimum hourly background sound level established in accordance with Publications NPC-205/NPC-232/NPC-233, whichever is higher.

The applicable noise limits should be those defined by the MOE as summarized below in Table 3-1.

Table 3-1 Summary of noise limits for points of reception (Class 3)

Wind Turbine Noise Criterion NPC-232 [dBA]	Wind Speed [m/s]				
	6	7	8	9	10
	40	43	45	49	51

4 DESCRIPTION OF SOURCES

4.1 Turbine description

Five Siemens turbine models are under consideration, as described in Table 4-1. The proposed turbine models are all 3-bladed, upwind, horizontal-axis turbines. The rotor diameter of each wind turbine model is 113 m.

Table 4-1: Summary of turbine models used at the Belle River site

Turbine Model Nameplate	Maximum Rated Power [MW]	Hub Height [m]	Peak Sound Power Level [dBA]	Number of turbines
SWT-3.2-113 2A, Rev. 0, Max. Power 3200 kW	3200	99.5	106.0	2
SWT-3.2-113 2A, Rev. 0, Max. Power 2772 kW	2772	99.5	104.0	6
SWT-3.2-113 2A, Rev. 0, Max. Power 2473 kW	2473	99.5	102.0	13
SWT-3.2-113 2A, Rev. 0, Max. Power 2370 kW	2370	99.5	101.0	16
SWT-3.2-113 2A, Rev. 0, Max. Power 2257 kW	2257	99.5	100.0	12
			Total	49

Full noise specifications as provided by the manufacturer to the Proponent can be found in Appendix E. Coordinates of all turbines are listed in Appendix F, including a description of which turbine model is used at each wind turbine location for the Project.

4.2 Substation

The Project includes one substation located in the Project Area and in close proximity to the wind turbines. The substation includes one transformer with an estimated rating of 112 MVA [5]. The estimated noise emissions of the Belle River transformer are described in Section 5.3.

The transformer coordinates, as provided by the Proponent, are included in Appendix F.

4.3 Adjacent Wind Farms

DNV GL has identified three operational wind farms adjacent to the Project, as described in Table 4-2. These three wind farms have turbines within 5 km of Belle River receptors. All turbines and transformers from the adjacent wind farms have been considered as noise sources in this report.

Table 4-2: Turbine models used at adjacent wind projects

Adjacent Project	Turbine Type	Number of Turbines	Turbine hub height [m]	Turbine Broadband Sound Power Level [dBA]
Comber [6]	Siemens SWT-2.3-101	72	80	106.0
Pointe-Aux-Roches [7] [8]	Vestas V90-1.8	27	80	103.5
				104.5
Gracey [9]	Enercon E-82	5	78	104.0

Table 4-3 summarizes the substations at the adjacent wind farms. The Comber and Pointe-Aux-Roches projects each have a substation adjacent to the Belle River Project. The Gracey Wind Farm is reported to not include a substation [9].

The noise emissions of the adjacent wind turbines and substations are further detailed in Section 5.

Table 4-3: Substation transformers used at adjacent wind projects

Adjacent Project	Substation Adjacent to Belle River	Number of Transformers	Transformer Broadband Sound Power Level [dBA]
Comber [6]	Yes	2	108.9
Pointe-Aux-Roches [7] [8]	Yes	1	100.4
Gracey [9]	No	-	-

DNV GL notes that the Gosfield, Richardson Line, and Naylor wind farms are further than 5 km from any Belle River project receptor and have therefore not been modeled in this noise assessment.

4.4 Sound Barrier

A sound barrier is planned for the Belle River Project substation. The type of barrier used in this noise study is one that can be described as of absorptive type with an Absorptive Coefficient of 0.8. The acoustic barriers should have a surface density of at least 20 kg/m² and have a closed surface free of gaps and cracks, such as Armtec's Durisol. A 7.0 m tall barrier was modeled on all four sides of each transformer, several meters

away from its surface on each side, with an opening on the north side to allow for equipment access. The barrier is illustrated in Figure 4-1. The corner coordinates of the Belle River substation barriers are shown in Table 4-2.

Table 4-4: Belle River substation barrier coordinates

Description	Easting [m]	Northing [m]
Barrier point 1	364206.5	4678701.1
Barrier point 2	364218.5	4678700.5
Barrier point 3	364217.5	4678680.5
Barrier point 4	364197.5	4678681.5
Barrier point 5	364199.1	4678711.5

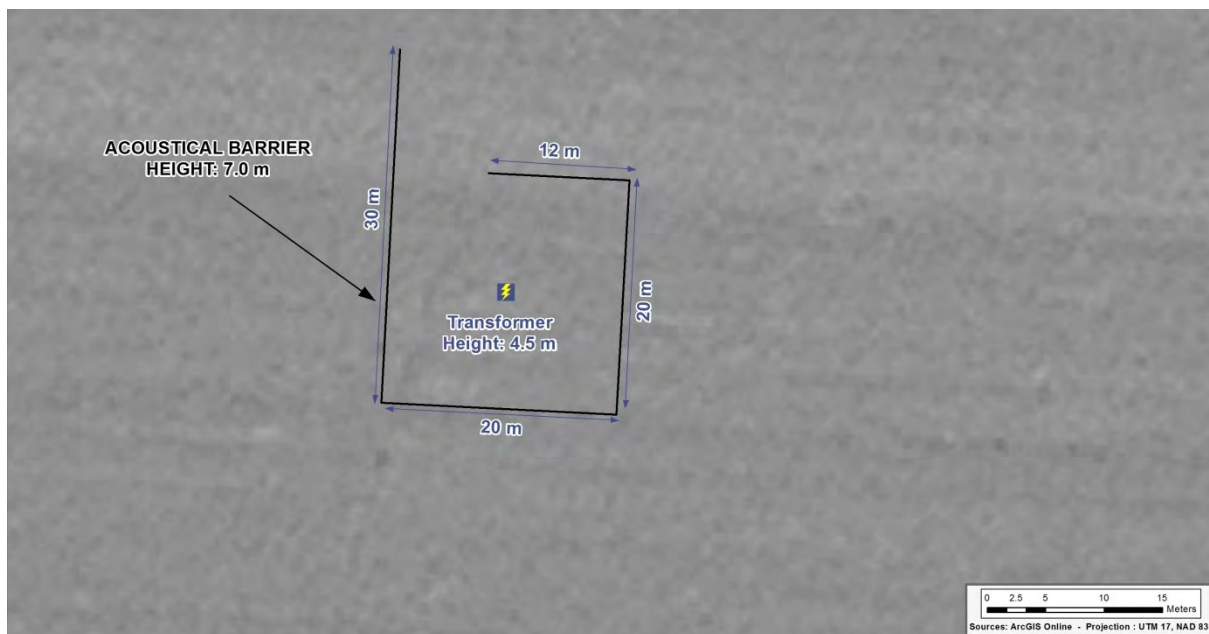


Figure 4-1: Belle River Wind Project Substation Barrier

DNV GL has not modelled any acoustic barriers for neighbouring substations.

5 NOISE EMISSION RATINGS

5.1 Belle River turbines

Guaranteed broadband sound power levels and octave band sound power levels were provided by Siemens [11] for each of the five wind turbine models under consideration and are shown in Appendix E. For each model, Siemens has provided octave band sound power levels corresponding to 10 m height wind speeds of 6, 7, 8, 9, and 10 m/s. Siemens has also provided a letter [12], included in Appendix E, which guarantees the maximum broadband sound power level of each turbine model.

A noise measurement campaign of the SWT-3.2-113 2A turbine has been carried out in accordance with IEC 61400-11 Ed. 3.0 [13]. Siemens has provided a measurement report summarizing the test results [14], included here in Appendix E.

DNV GL has determined that for all Siemens wind turbine models, the octave band sound power levels corresponding to a 10 m wind speed of 7 m/s result in the greatest sound pressure level at all receptors. The 7 m/s octave band levels were used to calculate the sound levels at all receptors in this report.

Siemens has confirmed [12] that the Siemens turbines to be supplied for the Project should not be tonal since the SWT-3.2-113 turbines have not been found to produce tonal audibility levels above 3 dB as stated in the acoustic emissions documents (Appendix E) and calculated using the criteria specified in accordance with IEC 61400-11:2012. In addition, Siemens has indicated that no test uncertainty needs to be included in the calculated tonal audibility per IEC 61400-11:2012. Therefore a tonality penalty has not been applied to noise from the Siemens turbines.

The acoustic emissions of the five turbine models under consideration are shown in Table 5-1 to Table 5-5.

Table 5-1: Siemens SWT-3.2-113 2A, Rev.0, Max. Power 3200 kW wind turbine acoustic emission summary

Make and Model : SWT-3.2-113 2A, Rev.0, Max. Power 3200 kW										
Electrical Rating : 3.200 MW										
Hub Height (m) : 99.5 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	116.9	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1	118.1
125	110.4	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
250	106.0	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.4
500	100.7	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
1000	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	96.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
4000	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
8000	86.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
A-weighted	104.9	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0

Table 5-2: Siemens SWT-3.2-113 2A, Rev.0, Max. Power 2772 kW wind turbine acoustic emission summary

Make and Model : SWT-3.2-113 2A, Rev.0, Max. Power 2772 kW										
Electrical Rating : 2.772 MW										
Hub Height (m) : 99.5 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	116.7	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5	117.5
125	110.0	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
250	104.7	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2	104.2
500	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1000	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
2000	95.2	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
4000	92.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
8000	84.9	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
A-weighted	103.7	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

Table 5-3: Siemens SWT-3.2-113 2A, Rev.0, Max. Power 2473 kW wind turbine acoustic emission summary

Make and Model : SWT-3.2-113 2A, Rev.0, Max. Power 2473 kW										
Electrical Rating : 2.473 MW										
Hub Height (m) : 99.5 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	116.2	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1
125	108.7	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
250	102.4	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
500	97.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1000	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
2000	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
4000	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
8000	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
A-weighted	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0

Table 5-4: Siemens SWT-3.2-113 2A, Rev.0, Max. Power 2370 kW wind turbine acoustic emission summary

Make and Model : SWT-3.2-113 2A, Rev.0, Max. Power 2370 kW										
Electrical Rating : 2.370 MW										
Hub Height (m) : 99.5 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	116.0	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
125	108.3	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6
250	101.2	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
500	96.2	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
1000	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
2000	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
4000	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
8000	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
A-weighted	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0

Table 5-5: Siemens SWT-3.2-113 2A, Rev.0, Max. Power 2257 kW wind turbine acoustic emission summary

Make and Model : SWT-3.2-113 2A, Rev.0, Max. Power 2257 kW										
Electrical Rating : 2.257 MW										
Hub Height (m) : 99.5 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	115.8	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7	116.7
125	107.5	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2
250	99.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
500	95.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
1000	93.4	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2000	91.3	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
4000	88.1	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
8000	81.3	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
A-weighted	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

5.2 Adjacent wind farm turbines

Noise emissions from three adjacent wind farms have been considered in this analysis.

5.2.1 Comber Wind Farm

The Comber Wind Farm consists of 72 Siemens SWT-2.3-101 turbines. Broadband and octave band sound power levels were obtained from the Comber noise report [6] and are shown. DNV GL has determined that for the Comber turbines, the octave band sound power levels corresponding to a 10 m wind speed of 10 m/s result in the greatest sound pressure level at all receptors. Therefore, the 10 m/s levels were used in the current analysis.

Table 5-6: Siemens SWT-2.3-101, Comber, 80 m wind turbine acoustic emission summary

Make and Model : SWT-2.3-101, Comber										
Electrical Rating : 2.3 MW										
Hub Height (m) : 80 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	106.8	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7
125	107.9	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5
250	104.5	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
500	102.7	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
1000	99.7	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
2000	95.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
4000	87.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
8000	85.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
A-weighted	104.6	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0



5.2.2 Pointe-Aux-Roches Wind Farm

The Pointe-Aux-Roches Wind Farm consists of 27 Vestas V90-1.8 turbines [7]. Two modes of operation are in use: Standard Mode and High Power Mode. Each turbine operates in one mode. 21 turbines operate in High Power Mode, while 6 operate in Standard Mode. The turbine locations and modes are included in Appendix F.

Broadband and octave band sound power levels for each mode were obtained from the Pointe-Aux-Roches noise report, and are summarized in Table 5-7 and

Table 5-8. The octave band sound power levels corresponding to a 10 m wind speed of 10 m/s correspond to the highest broadband sound power level. These were used in the Pointe-Aux-Roches noise report, and for all calculations in the current analysis.

Table 5-7: Vestas V90-1.8 Standard Mode wind turbine acoustic emission summary

Make and Model : Vestas V90-1.8, Standard Mode										
Electrical Rating : 1.8 MW										
Hub Height (m) : 80 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	110.5	111.9	111.8	110.8	111.5	111.5	111.5	111.5	111.5	111.5
125	104.9	106.4	106.3	106.3	106.1	106.1	106.1	106.1	106.1	106.1
250	100.7	101.6	101.4	100.5	100.9	100.9	100.9	100.9	100.9	100.9
500	97.7	97.9	98.4	97.8	97.9	97.9	97.9	97.9	97.9	97.9
1000	97.2	97.8	98.1	96.8	97.8	97.8	97.8	97.8	97.8	97.8
2000	94.4	95.1	95.8	94.8	95.8	95.8	95.8	95.8	95.8	95.8
4000	92.6	93.8	94.5	97.3	95.0	95.0	95.0	95.0	95.0	95.0
8000	85.8	89.2	89.9	90.7	92.5	92.5	92.5	92.5	92.5	92.5
A-weighted	102.3	103.1	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5

Table 5-8: Vestas V90-1.8 High Power Mode wind turbine acoustic emission summary

Make and Model : Vestas V90-1.8, High Power mode										
Electrical Rating : 1.8 MW										
Hub Height (m) : 80 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
31.5	112.1	114.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
63	107.6	110.8	112.6	112.6	112.6	112.6	112.6	112.6	112.6	112.6
125	106.3	108.9	109.7	109.7	109.7	109.7	109.7	109.7	109.7	109.7
250	100.7	102.6	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
500	98.9	100.5	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
1000	96.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
2000	94.4	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
4000	91.8	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
8000	82.5	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
A-weighted	102.3	104.0	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5

5.2.3 Gracey Wind Farm

The Gracey Wind Farm consists of 5 Enercon E-82 turbines. Broadband and octave band sound power levels for the E-82 turbine were obtained from the Chatham Wind Farm noise report [10] and are shown in Table 5-9. DNV GL notes that the Gracey noise assessment is publicly available [9] but the Chatham report is more recent. Both the Gracey and Chatham noise reports show the same broadband sound power level for the E-82 of 104.0 dBA.

DNV GL has determined that for the Gracey turbines, the octave band sound power levels corresponding to a 10 m wind speed of 8 m/s result in the greatest sound pressure level at all receptors. Therefore, the 8 m/s levels were used in the current analysis.

Table 5-9: Enercon E-82, 78 m wind turbine acoustic emission summary

Make and Model : Enercon E-82										
Electrical Rating : 2.0 MW										
Hub Height (m) : 78 m										
Wind Shear Coefficient : Worst case summer night time shear of the region										
	Octave Band Sound Power Level [dB]									
	Manufacturer's Emission Levels					Adjusted Emission Levels				
Wind Speed [m/s]	6	7	8	9	10	6	7	8	9	10
Frequency [Hz]										
63	108.3	110.5	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9
125	103.8	106.2	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
250	102.8	104.8	103.6	103.6	103.6	103.6	103.6	103.6	103.6	103.6
500	99.1	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
1000	95.3	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	87.8	91.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
4000	77.0	80.2	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
8000	78.4	78.8	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
A-weighted	100.7	103.3	104.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0

5.3 Belle River substation transformer

The noise contribution of the Belle River substation has been considered in this analysis. Noise emission from the Belle River substation mainly originates from one transformer. The transformer rating is estimated to be 112 MVA [5]. The choice of transformer has not yet been finalized, but will be sourced in accordance with permitted specifications.

The broadband sound power level of the Belle River transformer has been calculated to be 110.6 dBA, based on an audible noise level of 82 dBA, as guaranteed and sourced by the Proponent, in accordance with the application of standard IEEE C57.12.90 [15]. The 110.6 dBA includes a 5 dBA tonal penalty, as prescribed in Publication NPC-104.

The transformer's measurement surface area, as defined in standard IEEE C57.12.90, has been estimated to be 227 m². This calculation is based on a four sided polygon perimeter that includes a 2 m offset from all fan-cooled surfaces, as well as the top area of the measurement surface. A sketch of the plan view of the transformer, showing the approximate perimeter of the measurement surface area, is included in Appendix G.

The substation coordinates, as provided by the Proponent, are included in Appendix F.

The transformer's broadband sound power level L_W has been estimated as a function of its sound pressure level and measurement surface area using the following equation, as defined by IEEE C57.12.90 [15].

$$L_W = L_p + 10 * \log S$$

A broadband sound power level of 110.6 dBA was used for the transformer for all noise modeling. The calculation of the broadband level is summarized in Table 5-10.

Table 5-10: Belle River Transformer sound power level calculation summary

Transformer Power Rating [MVA]	112
Transformer Voltage Rating [kV]	240
Sound Pressure Level L_p [dBA]	82.0
Sound measurement area S (m ²)	227
Sound Power Level [dBA] (without penalty)	105.6
Sound Power Level L_W [dBA] (with penalty)	110.6

Table 5-11 provides the octave band sound power levels of the Belle River substation transformers using a typical transformer octave band sound distribution for a large transformer [15],[16].

Table 5-12 details the octave band calculation.

The transformers have been conservatively modeled as point sources at a height of 4.5 m.

Table 5-11: Belle River Wind Project substation transformer sound power level

	Octave Band Sound Power Level* (dB)									
Frequency (Hz)	32	63	125	250	500	1000	2000	4000	8000	Broadband (dBA)
PWL (dB)	107.2	113.2	115.2	110.2	110.2	104.2	99.2	94.2	87.2	110.6

* Includes 5 dB penalty to account for tonality

Table 5-12: Belle River Transformer Octave Band Calculation Details

32	63	125	250	500	1000	2000	4000	8000	Frequency [Hz]
-1	5	7	2	2	-4	-9	-14	-21	Typical Outdoor Transformer Octave band relative distribution [dB Lin]
-39.4	-26.2	-16.1	-8.6	-3.2	0.0	1.2	1.0	-1.1	dB Lin to dBA Conversion Scale
-40.4	-21.2	-9.1	-6.6	-1.2	-4.0	-7.8	-13.0	-22.1	Typical Outdoor Transformer Octave band relative distribution [dBA]
67.8	87.0	99.1	101.6	107.0	104.2	100.4	95.2	86.1	Scaled to 110.6 dBA Transformer

5.4 Adjacent wind farm substation transformers

Noise emissions from three adjacent wind farms have been considered in this analysis. The Comber and Pointe-Aux-Roches Wind Farm substations are adjacent to the Belle River Project. The Gracey Wind Farm is reported to not include a substation [9].

5.4.1 Comber Wind Farm

Noise emission from the Comber substation mainly originates from two identical 230/34.5 kV, 84 MVA transformers. Specifications and drawings of the transformer are available in the Comber noise report [6]. The maximum audible noise level of the transformer is 81 dBA as measured in accordance with IEEE C57-12.90-1999. For the Comber noise assessment, each transformer was modelled as five radiating area sources, as summarized in Table 5-13. Full details are available in the Comber noise report [6].

Table 5-13: Comber Wind Farm substation transformer sound power level, as modelled in the Comber noise report, not including 5 dB tonality penalty

	Octave Band Sound Power Level (dB)									
Frequency (Hz)	32	63	125	250	500	1000	2000	4000	8000	Broadband (dBA)
North Face	92.7	86.7	93.7	90.7	98.7	84.7	65.7	61.7	57.7	96.1
South Face	92.7	86.7	93.7	90.7	98.7	84.7	65.7	61.7	57.7	96.1
East Face	94.2	88.2	95.2	92.2	100.2	86.2	67.2	63.2	59.2	97.6
West Face	94.2	88.2	95.2	92.2	100.2	86.2	67.2	63.2	59.2	97.6
Top Face	93.5	87.5	94.5	91.5	99.5	85.5	66.5	62.5	58.5	96.9

Here, DNV GL has taken the conservative approach of modelling each Comber transformer as a point source at 4.24 m, the top height of the transformer. The modelled sound power level of the point source is equal to the total sound power level of the five area sources in the Comber noise analysis. A 5 dB tonality penalty has also been applied. The Comber transformer noise emissions used by DNV GL are shown in Table 5-14.

Table 5-14: Comber Wind Farm substation transformer sound power level, as modelled by DNV GL

	Octave Band Sound Power Level* (dB)									
Frequency (Hz)	32	63	125	250	500	1000	2000	4000	8000	Broadband (dBA)
PWL (dB)	105.5	99.5	106.5	103.5	111.5	97.5	78.5	74.5	70.5	108.9

* Includes 5 dB penalty to account for tonality

5.4.2 Pointe-Aux-Roches Wind Farm

Noise emission from the Pointe-Aux-Roches substation mainly originates from one 34.5/115 kV, 35/47/62 MVA transformer. Specifications and drawings of the transformer are available in the Pointe-Aux-Roches substation noise assessment [8]. The maximum audible noise level of the transformer is 72 dBA as measured in accordance with IEEE C57-12.90 and provided by the manufacturer. The octave band sound power levels of the Pointe-Aux-Roches transformer are found in the noise report [8] and are shown in Table 5-15.

Table 5-15: Pointe-Aux-Roches Wind Farm substation transformer sound power level, as modelled by DNV GL

	Octave Band Sound Power Level* (dB)									
Frequency (Hz)	32	63	125	250	500	1000	2000	4000	8000	Broadband (dBA)
PWL (dB)	97	103	105	100	100	94	89	84	76	100.4

* Includes 5 dB penalty to account for tonality

DNV GL has taken the conservative approach of modeling the transformer as a point source at a height of 5.6 m, the top height of the transformer. It is noted that 5.6 m is the height of the bushing. The tank height is 4.4 m. A 5 dB tonality penalty has also been applied.

6 NOISE IMPACT ASSESSMENT

The sound pressure levels at each PoR, Participant and VLR for the aggregate of all wind turbines and substation associated with the Project were calculated based on the ISO 9613-2 method.

The International Standards Organization (ISO) 9613 standard [17], [18] provides a prediction of the equivalent continuous A-weighted sound pressure level at a distance from one or more point sources under meteorological conditions favorable to propagation from sources of sound emission. These conditions are for downwind propagation or, equivalently, propagation under a well-developed moderate ground-based temperature inversion, commonly occurring at night.

The method consists of octave-band algorithms (i.e., with nominal mid-band frequencies from 63 Hz to 8 kHz) for calculating the attenuation of the emitted sound. The algorithm takes into account the following physical effects:

- Geometrical divergence – attenuation due to spherical spreading from the sound source;
- Atmospheric absorption – attenuation due to absorption by the atmosphere; and
- Ground effect – attenuation due to the acoustical properties of the ground.

ISO-9613-2 parameters were set as follows:

- Ambient air temperature: 10 °C;
- Ambient barometric pressure: 101.32 kPa;
- Humidity: 70%;
- Source ground factor: 0.7;
- Middle ground factor: 0.7;
- Receptor ground factor: 0.7;
- The effect of topography was considered.

A global ground factor of 0.7 is considered appropriate for such a site, which is primarily covered with vegetation. DNV GL has therefore applied a global ground factor of 0.7.

Additional calculations concerning propagation through foliage were not performed in this NIA, implying that the values calculated for sound attenuation are likely to be conservative in areas where there is foliage present in the line of sight between any turbine and a PoR. The estimated accuracy of the ISO 9613 method, as stated in ISO 9613-2, is ± 3 dB.

The wind turbine and transformer noise emission ratings used for each octave band were those specified in Section 5. The noise impact was calculated for each PoR and Participant located within 1,500 m of one or more turbines or substation, and the calculated noise level was then compared with the applicable noise limit for each PoR as stated in Table 3-1.

Noise levels were calculated at 4.5 m above ground level for 2-storey PoR/Participants, 7.5 m above ground level for 3-storey PoR/Participants, and at 1.5 m above ground level at 16 points along a 30-m radius circle for each 1-storey PoR/Participant. For the latter, the highest of these 16 values was chosen and presented in the table of noise levels.



6.1 Evaluation of site topography

Section 7.3.1 of ISO 9613-2 [18] states that when calculating the ground attenuation A_{gr} , the General method of calculation is applicable only to ground which is approximately flat, either horizontally or with a constant slope. DNV GL has reviewed the topography at the Belle River to determine if a correction is needed to account for different ground conditions, such as concave terrain.

DNV GL has investigated the topography at the Belle River site and found that the site is generally flat. Therefore DNV GL does not consider it appropriate to apply any topographical corrections to the ground factor at the Belle River site.

7 NOISE IMPACT ASSESSMENT RESULTS

The noise level at each PoR within 1,500 m of any turbine or substation of the Project, for wind speeds between 6 m/s and 10 m/s, is tabulated in Table 7-1. For each PoR, the following information is provided:

- The distance to the closest wind turbine or substation;
- For PoR at 1.5 m above ground level, the sound pressure level presented for wind speeds from 6 m/s to 10 m/s is the maximum noise level on the circumference of a 30-m radius circle centered on the PoR;
- For PoR at 4.5 m or 7.5 m above ground level, the sound pressure level presented for wind speeds from 6 m/s to 10 m/s is the noise level at the PoR location at its respective height;
- The sound level limit for that PoR according to the Noise Guidelines at each wind speed from 6 m/s to 10 m/s;
- The applicable background sound level; and
- Whether or not the noise levels at the PoR comply with the Noise Guidelines (for continued reference, compliance is confirmed for all PoR).

The closest distance between a wind turbine and a PoR for this project is 550 m between Turbine 57 and Receptor 732. Turbine 16 is 551 m from VLR 2738.

The highest calculated noise level at a PoR was found at Receptor 1121 at 40.0 dBA. The modelled sound level at VLR 2570 is 39.9 dBA. Several receptor sound levels are listed as 40.0 dBA in Table 7-1. DNV GL notes that these are all rounded up to 40.0 dBA.

The results show that the Project complies with the applicable MOE environmental Noise Guidelines at all wind speeds modelled (i.e., 6, 7, 8, 9 and 10 m/s). Noise iso-contour maps illustrating the maximum noise contribution of the Project are shown in Appendix A.

Similarly, the maximum noise level at each Participant within 1,500 m of any turbine or substation is tabulated in Table 7-2.

There are 164 Receptors within 1500 m of the Comber project. The sound level contributions of Belle River and Comber at these receptors are shown as a concordance table in Table 7-3.

There are 288 Receptors within 1500 m of the Pointe-Aux-Roche project. The sound level contributions of Belle River and Pointe-Aux-Roche at these receptors are shown as a concordance table in Table 7-4.

It is noted that there are no shared receptors with the Gracey Wind Farm.

Table 7-1 Noise impact assessment summary

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R174	1.5	1192	T15	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R175	4.5	1185	T15	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R176	4.5	1258	T15	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R177	4.5	1375	T15	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R181	4.5	1465	T15	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
R205	4.5	1052	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R206	4.5	1072	T15	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
R207	4.5	974	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R208	1.5	951	T15	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R209	1.5	920	T15	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R210	4.5	889	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R211	4.5	932	T15	40.0	40.0	40.0	40.0	40.0	40	43	45	49	51	40	Yes
R212	1.5	863	T15	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
R213	4.5	755	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R214	4.5	693	T15	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
R215	1.5	996	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R216	1.5	1092	T14	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R217	4.5	1140	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R218	1.5	1051	T14	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R219	4.5	1071	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R220	1.5	1092	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R221	4.5	1113	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R222	4.5	1143	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R223	1.5	1168	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R224	1.5	1196	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R225	1.5	1159	T14	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R226	4.5	1188	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R227	4.5	1220	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R228	4.5	1257	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R229	4.5	1287	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R230	4.5	1281	T14	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R231	4.5	1244	T14	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R232	1.5	1324	T14	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R233	4.5	1342	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R234	4.5	1372	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R235	1.5	1404	T14	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R236	4.5	1429	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R237	4.5	1436	T206	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R239	1.5	1497	T14	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R240	4.5	1487	T206	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R241	4.5	1471	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R242	4.5	1457	T206	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R243	4.5	1438	T206	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R244	4.5	1420	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R245	1.5	1402	T206	33.6	33.6	33.6	33.6	33.6	40	43	45	49	51	40	Yes
R246	1.5	1366	T206	33.4	33.4	33.4	33.4	33.4	40	43	45	49	51	40	Yes
R247	4.5	1418	T206	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R248	1.5	1398	T206	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R249	4.5	1377	T206	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R250	4.5	1361	T206	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R251	1.5	1340	T206	33.8	33.8	33.8	33.8	33.8	40	43	45	49	51	40	Yes
R252	4.5	1330	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R253	1.5	1285	T206	33.5	33.5	33.5	33.5	33.5	40	43	45	49	51	40	Yes
R254	1.5	1219	T206	33.2	33.2	33.2	33.2	33.2	40	43	45	49	51	40	Yes
R255	1.5	1175	T219	33.2	33.2	33.2	33.2	33.2	40	43	45	49	51	40	Yes
R256	4.5	1144	T219	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R257	4.5	1090	T219	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
R258	4.5	1058	T206	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R259	4.5	1037	T206	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R260	4.5	996	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R261	4.5	924	T219	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R262	4.5	891	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R263	1.5	911	T206	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R264	4.5	863	T206	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R265	4.5	848	T206	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R266	4.5	745	T206	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R267	4.5	831	T206	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R268	4.5	809	T206	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R269	7.5	710	T206	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R270	4.5	771	T28	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R271	1.5	821	T28	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R272	4.5	820	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R273	4.5	877	T28	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R274	1.5	878	T28	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R275	4.5	942	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R276	1.5	945	T28	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R277	1.5	1004	T28	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R278	1.5	1042	T28	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R279	4.5	1052	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R280	1.5	931	T28	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R281	7.5	955	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R282	4.5	890	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R283	4.5	882	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R284	1.5	795	T28	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R285	4.5	835	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R286	4.5	883	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R287	4.5	849	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R288	4.5	863	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R342	4.5	1057	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R343	1.5	1286	T219	33.0	33.0	33.0	33.0	33.0	40	43	45	49	51	40	Yes
R344	4.5	1250	T219	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R345	4.5	1224	T219	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R355	4.5	767	T206	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R356	1.5	658	T206	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R394	4.5	1486	T48	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R395	1.5	1143	T48	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R396	4.5	1187	T48	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R397	1.5	866	T48	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R398	1.5	935	T28	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R399	4.5	947	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R400	4.5	961	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R401	4.5	970	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R402	4.5	979	T28	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R403	4.5	1012	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R404	1.5	1028	T28	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
R405	4.5	1047	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R406	4.5	1065	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R407	4.5	974	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R408	4.5	962	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R409	4.5	944	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R410	4.5	954	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R411	4.5	977	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R412	4.5	999	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R413	4.5	1025	T28	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R414	7.5	1041	T28	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R415	7.5	1224	T41	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R416	4.5	1307	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R417	4.5	1281	T28	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R418	7.5	1251	T28	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R419	4.5	1295	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R420	7.5	1234	T28	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R421	1.5	1330	T41	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R422	4.5	1076	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R440	4.5	1495	T28	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R442	1.5	1430	T28	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R443	4.5	1403	T28	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R444	4.5	1328	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R445	1.5	1172	T28	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R446	4.5	1214	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R447	4.5	1292	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R448	4.5	1097	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R449	4.5	1130	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R450	1.5	1156	T28	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R451	1.5	1177	T28	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R452	1.5	1212	T28	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R453	1.5	1254	T28	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R454	1.5	1272	T28	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R455	1.5	1294	T28	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R456	1.5	1317	T28	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R457	4.5	1354	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R458	4.5	1374	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R459	1.5	1395	T28	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R460	4.5	1348	T28	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R461	1.5	1457	T28	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R462	1.5	1421	T28	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R463	1.5	1397	T28	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R464	4.5	1374	T28	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R465	4.5	1429	T28	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R466	4.5	1448	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R467	1.5	1472	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R468	7.5	1496	T28	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R469	4.5	1454	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R470	4.5	1497	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R471	4.5	1473	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R481	4.5	1366	T28	32.2	32.2	32.2	32.2	32.2	40	43	45	49	51	40	Yes
R482	4.5	1380	T28	32.2	32.2	32.2	32.2	32.2	40	43	45	49	51	40	Yes
R713	1.5	1139	T52	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R715	1.5	580	T52	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R716	1.5	758	T52	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R717	4.5	1061	T52	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R718	1.5	1100	T52	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R719	4.5	1281	T52	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R727	1.5	1022	T57	33.2	33.2	33.2	33.2	33.2	40	43	45	49	51	40	Yes
R728	4.5	888	T57	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R729	1.5	741	T57	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R730	4.5	576	T57	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R731	7.5	616	T57	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
R732	4.5	550	T57	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R733	1.5	551	T57	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R734	4.5	595	T57	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R735	7.5	575	T57	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
R736	7.5	679	T58	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R737	1.5	638	T58	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R738	1.5	573	T58	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R739	7.5	631	T58	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
R740	4.5	577	T58	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R741	7.5	630	T59	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
R742	4.5	551	T49	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
R751	1.5	1458	T55	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R752	4.5	1283	T55	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R753	4.5	1154	T55	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R754	1.5	1172	T55	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R755	4.5	971	T49	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R756	1.5	1002	T49	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R757	4.5	807	T49	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R758	4.5	736	T49	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R759	4.5	662	T49	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R760	4.5	624	T49	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R761	4.5	610	T49	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R762	1.5	594	T49	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R763	4.5	564	T48	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R764	1.5	587	T48	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R765	4.5	1319	T55	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R766	4.5	566	T48	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
R767	4.5	752	T58	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R768	4.5	768	T58	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
R769	1.5	849	T58	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R770	4.5	868	T58	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R771	1.5	910	T57	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R772	1.5	791	T57	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R773	1.5	794	T57	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R774	4.5	918	T57	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R775	1.5	672	T15	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R776	4.5	1329	T41	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R781	4.5	801	T57	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R782	1.5	723	T58	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R784	1.5	1275	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R785	4.5	1342	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R794	1.5	1147	T28	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R795	1.5	1332	T28	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R821	4.5	665	T219	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R822	4.5	550	T206	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
R823	4.5	625	T206	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R824	1.5	653	T206	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R825	1.5	788	T206	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R826	4.5	782	T206	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R827	4.5	782	T206	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R828	4.5	778	T206	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R829	4.5	781	T206	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R830	1.5	818	T206	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R831	4.5	775	T206	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R832	4.5	774	T206	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R833	4.5	789	T206	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R834	4.5	756	T206	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R835	1.5	777	T206	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
R836	1.5	881	T206	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R837	4.5	1042	T14	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R838	4.5	963	T14	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R839	4.5	1022	T14	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R840	1.5	933	T14	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R841	1.5	993	T14	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R842	4.5	917	T14	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R843	4.5	970	T14	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R844	1.5	986	T206	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R845	1.5	880	T14	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R846	1.5	864	T14	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R847	4.5	930	T14	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R848	1.5	851	T14	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R849	1.5	910	T14	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R850	1.5	911	T14	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R851	1.5	837	T14	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R852	1.5	818	T14	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
R853	4.5	882	T14	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R854	1.5	792	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R855	1.5	775	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R856	1.5	865	T14	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R857	4.5	846	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R858	1.5	768	T14	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R859	4.5	768	T14	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R860	4.5	845	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R861	1.5	765	T14	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R862	1.5	756	T14	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R863	4.5	750	T14	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R864	4.5	831	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R865	4.5	743	T14	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R866	4.5	830	T14	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R867	4.5	817	T14	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R868	4.5	820	T14	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R869	1.5	725	T14	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R870	4.5	756	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R871	4.5	1059	T14	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R872	4.5	994	T14	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R873	4.5	1036	T14	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R874	4.5	1058	T14	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R875	4.5	1083	T14	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R876	4.5	1109	T14	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R877	7.5	1102	T14	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R878	1.5	1113	T14	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R879	1.5	1148	T14	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R880	4.5	1172	T14	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R881	1.5	1205	T14	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R882	4.5	1300	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R883	4.5	1220	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R884	4.5	1197	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R885	1.5	1248	T11	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R886	1.5	1274	T11	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R887	4.5	1182	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R888	4.5	1164	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R889	4.5	1147	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R890	1.5	1227	T11	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R891	1.5	1218	T11	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R892	4.5	1198	T11	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R893	4.5	801	T206	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R894	4.5	915	T206	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R895	7.5	969	T206	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R896	1.5	933	T206	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R897	1.5	1000	T206	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R898	1.5	1031	T206	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R899	4.5	1060	T206	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R900	1.5	1089	T206	33.8	33.8	33.8	33.8	33.8	40	43	45	49	51	40	Yes
R901	4.5	1071	T206	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R902	7.5	1027	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R903	1.5	1060	T206	33.9	33.9	33.9	33.9	33.9	40	43	45	49	51	40	Yes
R904	7.5	1118	T206	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R905	4.5	1148	T206	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R906	4.5	1149	T206	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R907	1.5	1192	T206	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
R908	4.5	1207	T206	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R909	1.5	1242	T206	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R910	1.5	824	T215	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R911	4.5	1029	T205	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R912	1.5	999	T201	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R913	4.5	1257	T206	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R914	1.5	1232	T201	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
R915	1.5	1051	T201	33.9	33.9	33.9	33.9	33.9	40	43	45	49	51	40	Yes
R916	1.5	1086	T201	33.8	33.8	33.8	33.8	33.8	40	43	45	49	51	40	Yes
R917	4.5	977	T201	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R918	1.5	764	T201	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R919	4.5	813	T201	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R920	4.5	755	T201	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R921	4.5	805	T201	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R922	4.5	1052	T201	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R923	4.5	1128	T11	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R924	1.5	1204	T206	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
R925	1.5	1237	T206	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
R926	4.5	1137	T11	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R927	1.5	1132	T11	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R928	1.5	1119	T11	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R929	4.5	1102	T11	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R930	4.5	1007	T11	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R931	4.5	983	T11	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R932	1.5	961	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R933	1.5	1061	T11	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R934	7.5	1051	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R935	4.5	1054	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R936	4.5	1047	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R937	7.5	1037	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R938	1.5	1037	T11	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R939	4.5	1033	T11	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R940	4.5	919	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R941	1.5	915	T11	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R942	4.5	915	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R943	1.5	917	T11	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R944	1.5	994	T11	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R945	4.5	990	T11	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R946	4.5	1016	T11	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R947	4.5	1022	T11	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R948	4.5	1019	T11	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R949	1.5	906	T11	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R950	1.5	914	T11	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R951	1.5	918	T11	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R952	1.5	924	T11	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R953	1.5	933	T11	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R954	4.5	991	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R955	4.5	1010	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R956	1.5	933	T11	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R957	4.5	943	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R958	1.5	1032	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R959	4.5	1021	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R960	1.5	1063	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R961	1.5	1068	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R962	1.5	1084	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R963	1.5	1099	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R964	1.5	1117	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R965	4.5	1131	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R966	4.5	1149	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R967	1.5	1168	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R968	1.5	1187	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R969	1.5	1203	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R970	1.5	1230	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R971	4.5	1126	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R972	1.5	1146	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R973	4.5	1166	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R974	1.5	1178	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R975	1.5	1194	T11	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R976	4.5	1218	T200	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R977	1.5	1215	T200	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R978	1.5	1212	T200	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R979	4.5	1205	T200	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R980	4.5	1193	T200	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R981	1.5	1196	T200	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R982	1.5	1184	T200	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R983	1.5	1182	T200	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R984	1.5	1179	T200	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R985	4.5	1179	T200	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R986	4.5	855	T201	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R987	4.5	827	T201	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R988	4.5	871	T201	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R989	4.5	863	T201	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R990	4.5	875	T201	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R991	1.5	777	T201	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R992	1.5	871	T201	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R993	4.5	889	T200	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R994	4.5	886	T200	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R995	7.5	917	T200	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R996	4.5	851	T200	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R997	4.5	868	T200	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R998	4.5	871	T200	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R999	1.5	787	T200	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1000	4.5	846	T200	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1002	4.5	734	T201	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1003	1.5	660	T204	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1004	4.5	644	T204	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1005	1.5	583	T204	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1006	4.5	887	T200	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1007	1.5	896	T200	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R1008	1.5	887	T200	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R1009	4.5	856	T200	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1010	4.5	940	T204	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1011	4.5	882	T204	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1012	4.5	904	T204	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1013	4.5	894	T204	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1014	4.5	885	T204	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1015	4.5	878	T204	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1016	4.5	838	T204	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1017	4.5	1182	T200	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1018	4.5	1246	T200	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1019	1.5	1189	T200	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R1020	4.5	1261	T200	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1021	1.5	1262	T200	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
R1022	1.5	1265	T200	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R1023	4.5	1273	T200	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1024	1.5	1266	T200	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R1025	4.5	1197	T200	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1026	1.5	1197	T204	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R1027	4.5	1199	T204	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1028	7.5	1190	T204	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1029	1.5	1263	T204	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R1030	1.5	1278	T204	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1031	4.5	1181	T204	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1032	4.5	1130	T204	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1033	1.5	1205	T204	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R1034	4.5	1209	T204	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1035	4.5	1214	T204	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1036	1.5	1219	T204	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R1037	4.5	1146	T204	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1038	1.5	1196	T204	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R1039	4.5	1304	T204	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1040	4.5	1380	T8	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R1042	1.5	1370	T8	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
R1043	1.5	719	T28	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R1044	4.5	704	T28	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1045	4.5	678	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1046	1.5	768	T28	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1047	1.5	816	T28	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R1048	1.5	683	T28	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R1049	1.5	626	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R1050	4.5	775	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1051	4.5	768	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1052	4.5	794	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R1053	4.5	817	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1054	4.5	1403	T204	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1055	4.5	1249	T204	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1056	1.5	1247	T204	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R1057	1.5	1034	T204	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1058	4.5	845	T204	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1059	1.5	865	T204	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes
R1060	1.5	638	T204	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1061	4.5	643	T204	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1062	4.5	1356	T204	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R1063	1.5	1305	T204	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R1064	4.5	1316	T204	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R1065	1.5	1295	T204	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1066	1.5	1375	T204	33.2	33.2	33.2	33.2	33.2	40	43	45	49	51	40	Yes
R1067	4.5	1399	T204	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R1068	4.5	1446	T204	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R1069	4.5	1390	T204	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R1074	4.5	951	T204	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R1075	4.5	991	T204	34.8	34.8	34.8	34.8	34.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1076	4.5	1013	T204	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R1077	4.5	1028	T204	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1078	4.5	1078	T204	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes
R1079	1.5	1101	T204	32.9	32.9	32.9	32.9	32.9	40	43	45	49	51	40	Yes
R1080	1.5	1222	T204	31.9	31.9	31.9	31.9	31.9	40	43	45	49	51	40	Yes
R1081	4.5	1262	T204	33.0	33.0	33.0	33.0	33.0	40	43	45	49	51	40	Yes
R1082	4.5	1319	T204	32.7	32.7	32.7	32.7	32.7	40	43	45	49	51	40	Yes
R1083	4.5	576	T204	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1084	4.5	819	T204	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R1085	4.5	844	T204	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R1086	1.5	816	T204	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R1087	4.5	1131	T204	32.8	32.8	32.8	32.8	32.8	40	43	45	49	51	40	Yes
R1106	1.5	788	T44	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1107	4.5	636	T55	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1108	4.5	885	T55	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
R1109	1.5	862	T55	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1110	4.5	722	T55	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R1111	4.5	726	T55	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
R1112	4.5	770	T55	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
R1113	4.5	1039	T55	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1114	4.5	810	T51	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R1115	4.5	692	T51	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1116	4.5	688	T51	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1117	4.5	655	T51	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
R1118	4.5	654	T51	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
R1120	1.5	719	T51	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1121	7.5	648	T51	40.0	40.0	40.0	40.0	40.0	40	43	45	49	51	40	Yes
R1122	1.5	687	T19	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1123	4.5	688	T50	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R1124	1.5	626	T50	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1125	4.5	572	T19	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
R1126	4.5	627	T50	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
R1127	1.5	569	T50	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
R1128	4.5	571	T50	39.9	39.9	39.9	39.9	39.9	40	43	45	49	51	40	Yes
R1129	1.5	595	T50	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1130	4.5	614	T19	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
R1131	4.5	605	T50	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
R1132	4.5	649	T50	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
R1133	1.5	642	T19	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1134	4.5	710	T19	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1135	1.5	692	T62	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
R1136	1.5	642	T16	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1137	1.5	715	T62	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1138	4.5	676	T12	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
R1139	1.5	614	T12	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1140	4.5	686	T12	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
R1141	4.5	580	T12	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
R1143	1.5	632	T12	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R1144	1.5	728	T12	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1145	4.5	712	T12	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1146	4.5	709	T13	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1147	1.5	611	T13	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1148	1.5	584	T13	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1149	1.5	574	T13	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1150	1.5	683	T13	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1151	1.5	673	T13	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1152	4.5	687	T13	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1153	1.5	691	T13	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1154	4.5	677	T15	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R1155	4.5	597	T15	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1156	1.5	690	T15	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1158	4.5	671	T16	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1159	4.5	661	T16	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1160	1.5	1009	T16	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R1163	1.5	665	T26	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1164	1.5	747	T30	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R1165	4.5	1014	T55	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1166	1.5	807	T55	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1167	1.5	679	T44	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1168	1.5	707	T44	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1170	4.5	580	T40	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R1171	7.5	576	T40	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
R1172	4.5	581	T45	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
R1173	4.5	655	T40	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1174	1.5	663	T45	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1176	4.5	701	T46	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1178	1.5	663	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R1182	1.5	1389	T16	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R1183	1.5	1285	T16	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1184	1.5	1240	T16	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1185	7.5	1061	T16	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1186	1.5	1031	T16	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1187	4.5	857	T16	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1188	1.5	810	T16	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R1189	4.5	722	T16	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R1190	4.5	624	T16	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1191	4.5	684	T16	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1192	4.5	712	T16	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1193	1.5	645	T16	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1194	4.5	664	T16	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1195	1.5	557	T16	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1196	4.5	626	T16	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
R1197	1.5	659	T16	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R1198	4.5	683	T16	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
R1199	1.5	673	T16	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1200	4.5	778	T16	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1201	1.5	800	T19	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1202	4.5	779	T19	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1203	4.5	731	T19	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
R1204	1.5	702	T20	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1205	4.5	583	T20	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R1206	4.5	600	T30	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R1207	1.5	631	T20	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1208	4.5	598	T30	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1210	1.5	1480	T51	30.5	30.5	30.5	30.5	30.5	40	43	45	49	51	40	Yes
R1211	4.5	1398	T51	32.1	32.1	32.1	32.1	32.1	40	43	45	49	51	40	Yes
R1212	4.5	1386	T51	32.0	32.0	32.0	32.0	32.0	40	43	45	49	51	40	Yes
R1213	4.5	1229	T51	32.8	32.8	32.8	32.8	32.8	40	43	45	49	51	40	Yes
R1214	4.5	1173	T51	33.4	33.4	33.4	33.4	33.4	40	43	45	49	51	40	Yes
R1215	4.5	1134	T51	33.6	33.6	33.6	33.6	33.6	40	43	45	49	51	40	Yes
R1216	1.5	1016	T51	33.3	33.3	33.3	33.3	33.3	40	43	45	49	51	40	Yes
R1217	4.5	959	T51	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R1218	1.5	1342	T51	32.9	32.9	32.9	32.9	32.9	40	43	45	49	51	40	Yes
R1219	1.5	1314	T51	32.9	32.9	32.9	32.9	32.9	40	43	45	49	51	40	Yes
R1220	1.5	1328	T51	32.6	32.6	32.6	32.6	32.6	40	43	45	49	51	40	Yes
R1221	4.5	1273	T51	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R1222	1.5	798	T51	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R1223	1.5	817	T51	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R1224	1.5	650	T51	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1225	4.5	644	T51	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1226	4.5	927	T30	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R1227	1.5	929	T30	34.3	34.3	34.3	34.3	34.3	40	43	45	49	51	40	Yes
R1228	4.5	771	T30	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R1229	4.5	651	T30	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R1230	1.5	733	T30	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1231	4.5	770	T30	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1232	7.5	963	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1233	1.5	910	T28	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1234	1.5	595	T12	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1235	1.5	824	T14	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R1236	4.5	881	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1237	4.5	1041	T11	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1238	4.5	1047	T11	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1239	1.5	1256	T204	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1246	7.5	1333	T204	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1247	4.5	1320	T204	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1248	4.5	1259	T204	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1251	4.5	904	T16	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1252	4.5	692	T16	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R1253	4.5	602	T16	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1255	4.5	1469	T204	31.8	31.8	31.8	31.8	31.8	40	43	45	49	51	40	Yes
R1256	1.5	969	T204	33.6	33.6	33.6	33.6	33.6	40	43	45	49	51	40	Yes
R1257	1.5	1008	T204	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
R1258	1.5	956	T204	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes
R1259	4.5	1123	T201	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R1260	4.5	910	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1261	4.5	763	T206	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1262	4.5	797	T206	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1263	4.5	701	T206	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1264	1.5	1111	T204	33.8	33.8	33.8	33.8	33.8	40	43	45	49	51	40	Yes
R1265	1.5	683	T204	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R1266	1.5	661	T204	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1267	4.5	751	T219	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1268	1.5	849	T51	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R1269	1.5	733	T41	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R1270	1.5	736	T28	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1271	1.5	725	T28	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1272	1.5	713	T28	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1273	4.5	696	T28	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1274	1.5	683	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1275	4.5	611	T28	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1276	4.5	677	T28	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1277	1.5	660	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1278	1.5	604	T28	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R1279	4.5	595	T28	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1280	4.5	585	T28	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1281	4.5	586	T28	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1282	1.5	585	T28	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1283	1.5	593	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1284	4.5	591	T28	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1285	1.5	618	T28	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1286	1.5	605	T28	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1287	4.5	648	T28	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1288	4.5	655	T28	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1289	1.5	614	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1290	7.5	679	T28	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1291	4.5	673	T28	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R1292	1.5	685	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R1293	4.5	687	T28	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1294	4.5	699	T28	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1295	4.5	705	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1296	4.5	717	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1297	4.5	725	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1298	4.5	753	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1299	4.5	597	T28	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1300	1.5	753	T28	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
R1301	4.5	598	T28	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1302	1.5	607	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1303	1.5	621	T28	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R1304	1.5	626	T28	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R1305	1.5	640	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R1306	1.5	649	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
R1307	1.5	662	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
R1308	4.5	691	T28	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1309	4.5	674	T28	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1310	4.5	705	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R1311	1.5	707	T41	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1312	4.5	766	T28	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
R1313	4.5	781	T28	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R1314	4.5	760	T28	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1315	7.5	735	T28	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1367	1.5	1490	T37	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
R1368	1.5	1455	T37	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1369	7.5	1303	T37	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1370	1.5	1351	T37	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
R1371	4.5	1315	T35	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R1372	4.5	1299	T35	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1373	4.5	1281	T35	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1374	4.5	1222	T35	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1375	4.5	989	T35	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R1376	4.5	824	T35	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R1377	1.5	882	T35	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
R1378	4.5	899	T35	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
R1379	4.5	1078	T35	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
R1380	4.5	1110	T35	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R1381	4.5	1193	T35	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R1382	4.5	1201	T37	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1383	4.5	1161	T37	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1384	1.5	1135	T37	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1385	4.5	1083	T37	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1386	4.5	1057	T37	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1396	4.5	1037	T37	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1397	1.5	789	T35	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
R1398	4.5	753	T35	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1399	1.5	729	T35	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R1400	4.5	690	T35	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1401	4.5	667	T35	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1402	4.5	748	T35	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
R1403	1.5	608	T35	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1404	4.5	680	T35	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1405	4.5	713	T35	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1406	1.5	989	T35	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R1409	1.5	673	T28	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1410	1.5	640	T28	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R1411	4.5	632	T28	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1436	1.5	1413	T57	32.4	32.4	32.4	32.4	32.4	40	43	45	49	51	40	Yes
R1438	1.5	1496	T57	31.9	31.9	31.9	31.9	31.9	40	43	45	49	51	40	Yes
R1466	1.5	710	T28	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
R1467	7.5	694	T29	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R1468	1.5	612	T41	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1469	1.5	603	T29	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1470	4.5	550	T41	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
R1471	4.5	627	T41	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
R1473	1.5	617	T41	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1474	4.5	610	T29	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
R1475	1.5	605	T29	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
R1476	1.5	654	T29	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R1477	4.5	650	T29	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
R1478	4.5	706	T29	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1479	1.5	834	T40	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
R1480	4.5	876	T40	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1481	4.5	898	T40	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1482	4.5	902	T40	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1483	4.5	925	Sub	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
R1484	4.5	844	Sub	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1485	1.5	881	Sub	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
R1486	1.5	792	Sub	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1487	4.5	834	Sub	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1489	4.5	802	Sub	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1490	1.5	835	T38	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1491	4.5	802	Sub	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1492	7.5	832	Sub	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R1493	4.5	811	T38	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
R1494	4.5	806	Sub	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R1495	4.5	807	T38	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
R1496	1.5	726	T38	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
R1497	1.5	757	T38	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
R1498	4.5	742	T38	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R1499	1.5	690	T38	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
R1501	4.5	759	T38	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
R1502	1.5	706	T38	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
R1505	4.5	696	T36	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
R1506	1.5	736	T36	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
R1509	4.5	604	T35	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
R1510	1.5	550	T35	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R1511	4.5	552	T35	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
R1512	4.5	621	T35	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R1528	1.5	664	T35	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R1591	7.5	906	T219	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
R1734	4.5	879	T14	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R1735	4.5	897	T14	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R2088	4.5	1414	T214	32.1	32.1	32.1	32.1	32.1	40	43	45	49	51	40	Yes
R2089	4.5	1179	T214	33.6	33.6	33.6	33.6	33.6	40	43	45	49	51	40	Yes
R2103	4.5	1029	T214	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
R2105	4.5	1439	T214	32.0	32.0	32.0	32.0	32.0	40	43	45	49	51	40	Yes
R2107	4.5	1205	T202	33.0	33.0	33.0	33.0	33.0	40	43	45	49	51	40	Yes
R2108	4.5	557	T214	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R2109	4.5	912	T202	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
R2110	1.5	1156	T202	32.1	32.1	32.1	32.1	32.1	40	43	45	49	51	40	Yes
R2111	1.5	891	T202	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R2112	4.5	1311	T202	32.3	32.3	32.3	32.3	32.3	40	43	45	49	51	40	Yes
R2113	4.5	1004	T202	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R2114	4.5	1183	T202	33.1	33.1	33.1	33.1	33.1	40	43	45	49	51	40	Yes
R2116	1.5	1449	T202	30.2	30.2	30.2	30.2	30.2	40	43	45	49	51	40	Yes
R2260	4.5	1432	T202	32.9	32.9	32.9	32.9	32.9	40	43	45	49	51	40	Yes
R2261	4.5	1394	T205	33.2	33.2	33.2	33.2	33.2	40	43	45	49	51	40	Yes
R2262	4.5	1341	T205	33.5	33.5	33.5	33.5	33.5	40	43	45	49	51	40	Yes
R2263	4.5	1294	T202	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
R2264	4.5	1162	T205	34.5	34.5	34.5	34.5	34.5	40	43	45	49	51	40	Yes
R2265	4.5	1085	T205	34.4	34.4	34.4	34.4	34.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R2266	4.5	1064	T202	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
R2268	1.5	734	T215	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R2273	1.5	1454	T219	30.2	30.2	30.2	30.2	30.2	40	43	45	49	51	40	Yes
R2274	4.5	1325	T219	32.1	32.1	32.1	32.1	32.1	40	43	45	49	51	40	Yes
R2286	4.5	1482	T215	31.7	31.7	31.7	31.7	31.7	40	43	45	49	51	40	Yes
R2287	4.5	945	T219	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
R2288	4.5	927	T219	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
R2289	4.5	791	T219	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R2290	4.5	780	T219	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R2291	1.5	777	T215	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
R2292	1.5	754	T215	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
R2293	4.5	801	T219	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R2294	4.5	1127	T219	33.1	33.1	33.1	33.1	33.1	40	43	45	49	51	40	Yes
R2295	1.5	853	T205	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R2296	1.5	762	T205	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
R2297	1.5	750	T205	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
R2298	1.5	761	T202	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
R2299	1.5	719	T202	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
R2300	4.5	641	T205	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
R2302	4.5	662	T205	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
R2303	1.5	769	T211	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
R2304	4.5	1225	T215	33.3	33.3	33.3	33.3	33.3	40	43	45	49	51	40	Yes
R2305	4.5	930	T215	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
R2306	4.5	860	T215	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
R2307	1.5	691	T215	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
R2308	1.5	805	T215	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
R2309	4.5	720	T212	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R2310	4.5	816	T212	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
R2311	4.5	631	T215	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
R2312	4.5	662	T215	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
R2313	4.5	652	T215	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
R2315	4.5	673	T215	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
R2334	4.5	717	T219	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
R2336	4.5	947	T202	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
R2337	1.5	1255	T202	31.4	31.4	31.4	31.4	31.4	40	43	45	49	51	40	Yes
R2338	1.5	1234	T202	31.5	31.5	31.5	31.5	31.5	40	43	45	49	51	40	Yes
R2416	1.5	735	T14	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
R2426	4.5	699	T38	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
R2458	1.5	1485	T213	29.8	29.8	29.8	29.8	29.8	40	43	45	49	51	40	Yes
V2479	4.5	1056	T51	34.2	34.2	34.2	34.2	34.2	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2480	4.5	899	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V2481	4.5	899	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V2482	4.5	570	T14	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2483	4.5	1423	T204	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2484	4.5	569	T14	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
V2485	4.5	570	T14	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2486	4.5	572	T14	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
V2487	4.5	576	T14	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
V2488	4.5	582	T14	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2489	4.5	589	T14	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
V2490	4.5	594	T13	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
V2491	4.5	556	T13	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
V2492	4.5	554	T13	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
V2495	4.5	561	T12	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
V2496	4.5	562	T12	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
V2497	4.5	601	T12	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2498	4.5	802	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
V2499	4.5	758	T14	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
V2500	4.5	772	T14	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2501	4.5	787	T14	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2502	4.5	803	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
V2503	4.5	819	T14	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
V2504	4.5	837	T14	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
V2505	4.5	855	T14	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
V2506	4.5	908	T14	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V2509	4.5	902	T11	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2510	4.5	626	T12	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
V2511	4.5	652	T12	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
V2512	4.5	678	T12	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2513	4.5	683	T14	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2514	4.5	681	T14	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2515	4.5	680	T14	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
V2516	4.5	681	T14	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2517	4.5	683	T14	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
V2518	4.5	686	T14	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V2519	4.5	691	T14	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
V2520	4.5	697	T14	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
V2521	4.5	704	T14	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V2522	4.5	931	T14	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2523	4.5	954	T14	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2524	4.5	978	T14	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2525	4.5	1002	T14	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2526	4.5	1029	T14	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V2527	4.5	948	T14	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2528	4.5	920	T14	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2529	4.5	896	T14	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2530	4.5	660	T14	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2531	4.5	645	T14	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
V2532	4.5	631	T14	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V2533	4.5	618	T14	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
V2534	4.5	607	T14	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
V2535	4.5	597	T14	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V2536	4.5	589	T14	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
V2537	4.5	582	T14	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2538	4.5	576	T14	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
V2539	4.5	572	T14	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2540	4.5	873	T14	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V2541	4.5	850	T14	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V2542	4.5	827	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V2543	4.5	769	T14	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2544	4.5	748	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
V2545	4.5	729	T14	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V2546	4.5	710	T14	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2547	4.5	693	T14	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V2548	4.5	676	T14	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
V2551	4.5	713	T14	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
V2552	4.5	722	T14	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
V2553	4.5	733	T14	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2554	4.5	745	T14	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
V2555	4.5	902	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2556	4.5	723	T29	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
V2557	4.5	885	T29	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2558	4.5	752	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V2560	4.5	666	T28	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
V2562	4.5	803	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2564	4.5	795	T38	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
V2565	4.5	638	T35	39.9	39.9	39.9	39.9	39.9	40	43	45	49	51	40	Yes
V2566	4.5	773	T12	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2567	4.5	802	T51	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2568	4.5	606	T28	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2570	4.5	592	T35	39.9	39.9	39.9	39.9	39.9	40	43	45	49	51	40	Yes
V2571	4.5	779	T40	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2573	4.5	997	T16	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2576	4.5	810	T12	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V2577	4.5	679	T12	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2578	4.5	680	T38	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2580	4.5	618	T51	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
V2581	4.5	766	T49	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V2582	4.5	693	T48	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
V2585	4.5	1344	T55	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V2586	4.5	569	T41	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
V2587	4.5	1212	T28	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V2588	4.5	980	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2589	4.5	1170	T28	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2590	4.5	713	T44	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2591	4.5	1046	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2592	4.5	832	T28	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2593	4.5	858	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2594	4.5	910	T28	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2595	4.5	928	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2599	4.5	1011	T28	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
V2600	4.5	946	T28	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V2601	4.5	816	T55	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V2603	4.5	702	T36	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
V2609	4.5	1023	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V2610	4.5	998	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V2613	4.5	1329	T206	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2614	4.5	1366	T206	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V2617	4.5	772	T37	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2619	4.5	1376	T206	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2641	4.5	1481	T204	34.7	34.7	34.7	34.7	34.7	40	43	45	49	51	40	Yes
V2648	4.5	769	T30	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V2652	4.5	751	T30	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V2657	4.5	1297	T51	32.7	32.7	32.7	32.7	32.7	40	43	45	49	51	40	Yes
V2658	4.5	1096	T51	33.9	33.9	33.9	33.9	33.9	40	43	45	49	51	40	Yes
V2666	4.5	997	T28	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
V2667	4.5	900	T30	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
V2668	4.5	763	T28	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V2683	4.5	1444	T51	31.9	31.9	31.9	31.9	31.9	40	43	45	49	51	40	Yes
V2687	4.5	1462	T204	33.8	33.8	33.8	33.8	33.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2689	4.5	633	T12	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
V2690	4.5	635	T14	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
V2692	4.5	796	T14	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V2693	4.5	1006	T51	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
V2694	4.5	668	T13	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2695	4.5	1014	T11	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V2696	4.5	1041	T11	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V2697	4.5	807	T11	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2698	4.5	689	T11	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2700	4.5	937	T11	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V2701	4.5	624	T13	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
V2702	4.5	1287	T204	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V2703	4.5	1272	T200	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
V2706	4.5	1484	T51	31.6	31.6	31.6	31.6	31.6	40	43	45	49	51	40	Yes
V2707	4.5	1247	T11	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2711	4.5	664	T62	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
V2712	4.5	585	T15	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V2713	4.5	897	T11	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
V2714	4.5	1088	T11	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
V2716	4.5	1204	T14	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2717	4.5	636	T50	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V2718	4.5	675	T51	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
V2719	4.5	955	T11	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2723	4.5	814	T11	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
V2728	4.5	878	T51	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
V2729	4.5	707	T51	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V2732	4.5	593	T15	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
V2733	4.5	965	T16	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V2734	4.5	742	T15	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
V2735	4.5	628	T30	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V2736	4.5	690	T12	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2738	4.5	551	T16	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2742	4.5	644	T16	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
V2743	4.5	688	T13	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2744	4.5	667	T20	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2745	4.5	1184	T16	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
V2746	4.5	1055	T16	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2747	4.5	773	Sub	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V2748	4.5	823	T30	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V2749	4.5	695	T26	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2751	4.5	566	T34	39.9	39.9	39.9	39.9	39.9	40	43	45	49	51	40	Yes
V2752	4.5	1476	T16	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
V2754	4.5	914	T53	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
V2755	4.5	786	T16	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2756	4.5	778	T16	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
V2757	4.5	596	T51	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2758	4.5	704	T28	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
V2759	4.5	748	T29	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
V2760	4.5	866	Sub	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2761	4.5	788	Sub	38.6	38.6	38.6	38.6	38.6	40	43	45	49	51	40	Yes
V2762	4.5	802	Sub	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
V2763	4.5	625	T19	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
V2764	4.5	678	T19	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2769	4.5	696	T51	39.6	39.6	39.6	39.6	39.6	40	43	45	49	51	40	Yes
V2770	4.5	650	T57	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V2771	4.5	714	T55	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
V2772	4.5	551	T49	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2773	4.5	1173	T52	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2774	4.5	655	T48	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V2775	4.5	730	T47	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2776	4.5	1139	T55	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V2777	4.5	599	T52	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2778	4.5	728	T58	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
V2779	4.5	769	T57	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2780	4.5	905	T57	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V2781	4.5	817	T58	38.2	38.2	38.2	38.2	38.2	40	43	45	49	51	40	Yes
V2783	4.5	792	T57	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
V2784	4.5	1378	T52	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V2785	4.5	832	T52	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
V2786	4.5	738	T58	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
V2787	4.5	917	T57	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V2788	4.5	747	T48	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
V2789	4.5	1015	T48	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2790	4.5	676	T57	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
V2792	4.5	575	T58	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
V2802	4.5	724	T57	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V2806	4.5	1246	T55	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
V2807	4.5	1449	T55	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
V2809	4.5	787	T40	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V2810	4.5	598	T45	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2811	4.5	722	T55	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V2812	4.5	807	T55	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
V2813	4.5	715	T45	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
V2814	4.5	645	T46	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2817	4.5	605	T55	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2818	4.5	727	T36	39.7	39.7	39.7	39.7	39.7	40	43	45	49	51	40	Yes
V2819	4.5	640	T37	38.9	38.9	38.9	38.9	38.9	40	43	45	49	51	40	Yes
V2820	4.5	703	T36	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2823	4.5	621	T47	37.9	37.9	37.9	37.9	37.9	40	43	45	49	51	40	Yes
V2824	4.5	881	T47	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2826	4.5	1357	T28	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V2827	4.5	901	T55	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V2829	4.5	715	T38	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
V2830	4.5	878	Sub	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
V2834	4.5	734	T52	38.7	38.7	38.7	38.7	38.7	40	43	45	49	51	40	Yes
V2835	4.5	815	T57	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V2836	4.5	670	T45	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2838	4.5	839	T55	37.8	37.8	37.8	37.8	37.8	40	43	45	49	51	40	Yes
V2873	4.5	1015	T14	36.7	36.7	36.7	36.7	36.7	40	43	45	49	51	40	Yes
V2874	4.5	728	T14	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2879	4.5	620	T35	38.8	38.8	38.8	38.8	38.8	40	43	45	49	51	40	Yes
V2880	4.5	653	T35	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
V2881	4.5	892	T35	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2883	4.5	1437	T28	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2889	4.5	877	T52	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V2892	4.5	1210	T52	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V2899	4.5	1131	T52	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V2901	4.5	1380	T52	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
V2918	4.5	677	T28	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V2919	4.5	683	T28	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
V2923	4.5	1293	T37	39.1	39.1	39.1	39.1	39.1	40	43	45	49	51	40	Yes
V2926	4.5	1390	T37	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V2933	4.5	1326	T37	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2934	4.5	1387	T35	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V2935	4.5	1272	T35	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
V2943	4.5	1272	T37	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V2944	4.5	1190	T35	39.2	39.2	39.2	39.2	39.2	40	43	45	49	51	40	Yes
V2946	4.5	1216	T35	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V2970	4.5	1395	T219	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
V2972	4.5	1338	T219	33.9	33.9	33.9	33.9	33.9	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V2973	4.5	1449	T206	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
V2974	4.5	1415	T206	35.0	35.0	35.0	35.0	35.0	40	43	45	49	51	40	Yes
V2975	4.5	1470	T206	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
V3010	4.5	1302	T206	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V3011	4.5	1281	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V3012	4.5	1261	T206	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
V3013	4.5	1241	T206	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V3014	4.5	1222	T206	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V3015	4.5	1270	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V3016	4.5	1286	T206	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V3017	4.5	1308	T206	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V3018	4.5	1325	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes
V3019	4.5	1345	T206	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V3020	4.5	1182	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V3021	4.5	1216	T206	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
V3024	4.5	1369	T219	31.9	31.9	31.9	31.9	31.9	40	43	45	49	51	40	Yes
V3025	4.5	929	T219	34.6	34.6	34.6	34.6	34.6	40	43	45	49	51	40	Yes
V3027	4.5	1465	T215	31.8	31.8	31.8	31.8	31.8	40	43	45	49	51	40	Yes
V3042	4.5	1007	T215	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
V3043	4.5	1349	T214	32.5	32.5	32.5	32.5	32.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V3044	4.5	1097	T214	34.1	34.1	34.1	34.1	34.1	40	43	45	49	51	40	Yes
V3045	4.5	1448	T214	32.1	32.1	32.1	32.1	32.1	40	43	45	49	51	40	Yes
V3046	4.5	796	T215	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V3047	4.5	927	T214	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V3048	4.5	667	T215	38.1	38.1	38.1	38.1	38.1	40	43	45	49	51	40	Yes
V3049	4.5	723	T215	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V3050	4.5	727	T215	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V3051	4.5	754	T215	37.7	37.7	37.7	37.7	37.7	40	43	45	49	51	40	Yes
V3052	4.5	980	T215	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
V3053	4.5	587	T215	39.9	39.9	39.9	39.9	39.9	40	43	45	49	51	40	Yes
V3054	4.5	752	T212	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
V3056	4.5	660	T214	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
V3057	4.5	1462	T213	31.5	31.5	31.5	31.5	31.5	40	43	45	49	51	40	Yes
V3058	4.5	657	T206	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
V3060	4.5	781	T206	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
V3061	4.5	858	T206	36.4	36.4	36.4	36.4	36.4	40	43	45	49	51	40	Yes
V3062	4.5	677	T206	37.1	37.1	37.1	37.1	37.1	40	43	45	49	51	40	Yes
V3063	4.5	1059	T215	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V3064	4.5	967	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V3065	4.5	862	T206	35.8	35.8	35.8	35.8	35.8	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V3066	4.5	805	T206	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V3067	4.5	775	T206	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V3068	4.5	852	T206	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V3069	4.5	664	T206	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V3070	4.5	666	T206	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V3072	4.5	1078	T206	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V3073	4.5	1091	T201	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
V3074	4.5	1164	T201	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
V3075	4.5	928	T201	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V3076	4.5	1028	T201	35.3	35.3	35.3	35.3	35.3	40	43	45	49	51	40	Yes
V3077	4.5	954	T201	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V3078	4.5	715	T201	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V3079	4.5	820	T201	37.3	37.3	37.3	37.3	37.3	40	43	45	49	51	40	Yes
V3080	4.5	781	T201	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
V3090	4.5	857	T35	37.4	37.4	37.4	37.4	37.4	40	43	45	49	51	40	Yes
V3091	4.5	711	T13	38.3	38.3	38.3	38.3	38.3	40	43	45	49	51	40	Yes
V3101	4.5	816	T206	36.2	36.2	36.2	36.2	36.2	40	43	45	49	51	40	Yes
V3102	4.5	1331	T11	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
V3103	4.5	1107	T11	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V3104	4.5	1140	T11	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V3105	4.5	1127	T201	35.6	35.6	35.6	35.6	35.6	40	43	45	49	51	40	Yes
V3106	4.5	831	T201	35.9	35.9	35.9	35.9	35.9	40	43	45	49	51	40	Yes
V3108	4.5	1214	T200	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V3109	4.5	982	T200	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
V3110	4.5	770	T200	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V3112	4.5	820	T204	37.5	37.5	37.5	37.5	37.5	40	43	45	49	51	40	Yes
V3114	4.5	897	T204	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
V3115	4.5	745	T204	36.8	36.8	36.8	36.8	36.8	40	43	45	49	51	40	Yes
V3116	4.5	918	T204	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V3117	4.5	1331	T204	35.1	35.1	35.1	35.1	35.1	40	43	45	49	51	40	Yes
V3118	4.5	1349	T204	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
V3120	4.5	1380	T204	32.2	32.2	32.2	32.2	32.2	40	43	45	49	51	40	Yes
V3196	4.5	1477	T204	30.7	30.7	30.7	30.7	30.7	40	43	45	49	51	40	Yes
V3203	4.5	836	T204	35.2	35.2	35.2	35.2	35.2	40	43	45	49	51	40	Yes
V3204	4.5	785	T204	36.0	36.0	36.0	36.0	36.0	40	43	45	49	51	40	Yes
V3205	4.5	695	T200	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V3206	4.5	647	T205	38.4	38.4	38.4	38.4	38.4	40	43	45	49	51	40	Yes
V3207	4.5	667	T205	38.0	38.0	38.0	38.0	38.0	40	43	45	49	51	40	Yes
V3208	4.5	809	T205	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V3211	4.5	1063	T202	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes/No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V3212	4.5	786	T202	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
V3213	4.5	653	T202	38.5	38.5	38.5	38.5	38.5	40	43	45	49	51	40	Yes
V3214	4.5	821	T202	37.2	37.2	37.2	37.2	37.2	40	43	45	49	51	40	Yes
V3216	4.5	704	T212	39.5	39.5	39.5	39.5	39.5	40	43	45	49	51	40	Yes
V3217	4.5	711	T215	39.3	39.3	39.3	39.3	39.3	40	43	45	49	51	40	Yes
V3239	4.5	1340	T202	32.1	32.1	32.1	32.1	32.1	40	43	45	49	51	40	Yes
V3286	4.5	1443	T213	31.3	31.3	31.3	31.3	31.3	40	43	45	49	51	40	Yes
V3289	4.5	1046	T213	34.0	34.0	34.0	34.0	34.0	40	43	45	49	51	40	Yes
V3290	4.5	1101	T213	33.7	33.7	33.7	33.7	33.7	40	43	45	49	51	40	Yes
V3296	4.5	996	T214	34.9	34.9	34.9	34.9	34.9	40	43	45	49	51	40	Yes
V3297	4.5	1171	T214	33.6	33.6	33.6	33.6	33.6	40	43	45	49	51	40	Yes
V3302	4.5	551	T210	39.8	39.8	39.8	39.8	39.8	40	43	45	49	51	40	Yes
V3306	4.5	744	T219	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V3307	4.5	1418	T205	33.1	33.1	33.1	33.1	33.1	40	43	45	49	51	40	Yes
V3339	4.5	830	T204	36.5	36.5	36.5	36.5	36.5	40	43	45	49	51	40	Yes
V3340	4.5	798	T200	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V3341	4.5	792	T200	37.6	37.6	37.6	37.6	37.6	40	43	45	49	51	40	Yes
V3342	4.5	1111	T200	36.1	36.1	36.1	36.1	36.1	40	43	45	49	51	40	Yes
V3343	4.5	897	T200	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V3344	4.5	897	T200	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes

Point of Reception ID	Receptor height [m]	Distance to Nearest Source [m]	Nearest Source [ID]	Calculated Sound Pressure Level at Receptor [dB(A)] at selected Wind Speed in m/s					Sound Level Limit [dB(A)] at selected Wind Speed in m/s					Applicable Background Sound Level	Compliant (Yes / No)
				6 or <	7	8	9	10	6 or <	7	8	9	10	NPC 232 (C 3)	
V3345	4.5	893	T200	36.9	36.9	36.9	36.9	36.9	40	43	45	49	51	40	Yes
V3346	4.5	862	T200	37.0	37.0	37.0	37.0	37.0	40	43	45	49	51	40	Yes
V3347	4.5	888	T201	36.3	36.3	36.3	36.3	36.3	40	43	45	49	51	40	Yes
V3348	4.5	1022	T11	35.7	35.7	35.7	35.7	35.7	40	43	45	49	51	40	Yes
V3351	4.5	1103	T11	35.4	35.4	35.4	35.4	35.4	40	43	45	49	51	40	Yes
V3358	4.5	749	T206	36.6	36.6	36.6	36.6	36.6	40	43	45	49	51	40	Yes
V3359	4.5	953	T206	35.5	35.5	35.5	35.5	35.5	40	43	45	49	51	40	Yes
V3363	4.5	1160	T15	39.4	39.4	39.4	39.4	39.4	40	43	45	49	51	40	Yes
V3379	4.5	618	T59	39.0	39.0	39.0	39.0	39.0	40	43	45	49	51	40	Yes
V3385	4.5	1325	T51	32.4	32.4	32.4	32.4	32.4	40	43	45	49	51	40	Yes

Table 7-2 Noise impact assessment summary – participants

Participant ID	Height [m]	Distance to nearest source [m]	Nearest source [ID]	Max Calculated sound pressure level [dBA]
R714	4.5	611	T52	39.4
R1001	4.5	611	T205	38.7
R1119	1.5	597	T51	38.5
R1142	1.5	603	T12	37.7
R1157	1.5	547	T15	39.1
R1161	1.5	484	T53	40.4
R1162	4.5	457	T53	41.5
R1169	4.5	570	T44	39.2
R1175	4.5	640	T45	39.0
R1177	1.5	631	T46	37.7
R1472	1.5	590	T29	37.9
R1488	1.5	774	Sub	37.5
R1500	4.5	701	T38	39.4
R1503	7.5	764	T38	39.9
R1504	4.5	785	T54	39.6
R1507	4.5	651	T35	39.8
R1508	4.5	589	T35	39.9
R2301	1.5	730	T205	38.0
R2314	1.5	540	T215	39.0
V2721	4.5	560	T50	40.0
V2722	4.5	572	T50	39.9
V2731	4.5	576	T13	39.1
V2737	4.5	564	T30	39.2
V2740	4.5	567	T28	37.9
V2753	4.5	713	T16	38.1
V2765	4.5	568	T19	39.8
V2766	4.5	540	T16	38.5
V2768	4.5	554	T20	39.7
V2782	4.5	526	T57	38.4
V2791	4.5	541	T58	39.0
V2793	4.5	561	T59	39.2
V2794	4.5	430	T49	39.2
V2815	4.5	543	T55	38.0
V2816	4.5	639	T40	39.1

Participant ID	Height [m]	Distance to nearest source [m]	Nearest source [ID]	Max Calculated sound pressure level [dBA]
V2822	4.5	587	T47	38.8
V2825	4.5	551	T40	39.3
V2831	4.5	701	T35	39.8
V3055	4.5	359	T214	43.6
V3059	4.5	692	T206	37.0
V3071	4.5	629	T206	37.3
V3107	4.5	745	T201	37.0
V3111	4.5	760	T200	37.7
V3113	4.5	788	T204	37.4
V3215	4.5	709	T211	39.5
V3230	4.5	97	T213	49.4

Table 7-3 Concordance table showing contributions from Belle River and Comber at shared receptors

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	Comber	Belle River	Comber	Belle River	Comber	Total ¹
360772	4676636	R174	1192	844	T15	Com48	30.4	36.7	37.6
360682	4676598	R175	1185	941	T15	Com48	31.2	38.7	39.4
360680	4676517	R176	1258	966	T15	Com46	30.8	38.8	39.4
360747	4676418	R177	1375	990	T15	Com48	30.3	38.8	39.4
360638	4676281	R181	1465	882	T15	Com46	29.8	39.1	39.6
360692	4676751	R205	1052	868	T15	Com48	32.0	38.6	39.5
360788	4676785	R206	1072	766	T15	Com48	32.0	38.8	39.7
360706	4676850	R207	974	825	T15	Com48	32.5	38.5	39.5
360707	4676877	R208	951	818	T15	Com48	31.7	36.5	37.7
360706	4676914	R209	920	811	T15	Com48	31.9	36.5	37.7
360707	4676951	R210	889	805	T15	Com48	33.1	38.4	39.5
360812	4676981	R211	932	697	T15	Com48	33.3	38.9	40.0
360721	4676995	R212	863	786	T15	Com48	32.4	36.9	38.2
360706	4677124	R213	755	802	T15	Com48	34.2	38.0	39.5
360743	4677257	R214	693	789	T15	Com48	34.9	37.8	39.6
358711	4677274	R215	996	1130	T14	Com45	32.5	31.8	35.1
358611	4677248	R216	1092	1195	T14	Com45	32.4	31.3	34.8
358582	4677205	R217	1140	1195	T14	Com45	33.3	33.3	36.3
358685	4677217	R218	1051	1117	T14	Com45	32.2	31.9	35.0
358682	4677190	R219	1071	1104	T14	Com45	33.2	34.0	36.7
358680	4677159	R220	1092	1088	T14	Com45	32.0	32.2	35.1
358678	4677130	R221	1113	1074	T14	Com45	33.0	34.3	36.7
358668	4677096	R222	1143	1066	T14	Com45	32.8	34.4	36.7
358664	4677064	R223	1168	1054	T14	Com45	31.6	32.6	35.1
358661	4677026	R224	1196	1039	T14	Com45	31.5	32.7	35.1
358587	4677167	R225	1159	1171	T14	Com45	32.0	31.5	34.7
358589	4677118	R226	1188	1145	T14	Com45	32.9	33.7	36.4
358576	4677084	R227	1220	1141	T14	Com45	32.8	33.8	36.3
358571	4677033	R228	1257	1123	T14	Com45	32.6	33.9	36.3
358572	4676988	R229	1287	1105	T14	Com45	32.4	34.1	36.4
358651	4676919	R230	1281	1006	T14	Com45	32.2	35.0	36.8
358654	4676966	R231	1244	1020	T14	Com45	32.3	34.9	36.8
358570	4676937	R232	1324	1088	T14	Com45	31.2	32.4	34.7
358571	4676911	R233	1342	1079	T14	Com45	32.1	34.4	36.4

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	Comber	Belle River	Comber	Belle River	Comber	
358567	4676872	R234	1372	1071	T14	Com45	32.0	34.5	36.4
358557	4676837	R235	1404	1071	T14	Com45	30.8	32.6	34.7
358553	4676808	R236	1429	1068	T14	Com45	31.7	34.6	36.4
358507	4676814	R237	1436	1114	T206	Com45	31.7	34.2	36.1
358529	4676739	R239	1497	1078	T14	Com45	30.4	32.6	34.6
358477	4676733	R240	1487	1129	T206	Com45	31.4	34.1	36.0
358447	4676733	R241	1471	1158	T206	Com45	31.5	33.9	35.8
358422	4676733	R242	1457	1183	T206	Com45	31.4	33.6	35.7
358390	4676738	R243	1438	1215	T206	Com45	31.5	33.4	35.5
358355	4676738	R244	1420	1250	T206	Com45	31.5	33.1	35.4
358328	4676744	R245	1402	1278	T206	Com45	30.5	30.8	33.6
358268	4676754	R246	1366	1339	T206	Com45	30.6	30.3	33.4
358475	4676814	R247	1418	1145	T206	Com45	31.8	33.9	36.0
358444	4676818	R248	1398	1176	T206	Com45	30.7	31.7	34.2
358415	4676823	R249	1377	1206	T206	Com45	31.8	33.4	35.7
358389	4676826	R250	1361	1232	T206	Com45	31.9	33.2	35.6
358355	4676830	R251	1340	1266	T206	Com45	30.9	30.9	33.8
358328	4676826	R252	1330	1292	T206	Com45	32.0	32.7	35.4
358264	4676843	R253	1285	1358	T206	Com45	31.1	30.1	33.5
358584	4677358	R342	1057	1282	T14	Com45	33.9	32.6	36.3
368275	4677219	R394	1486	1096	T48	Com58	31.8	36.2	37.6
368301	4677586	R395	1143	1141	T48	Com33	32.2	32.7	35.5
368305	4677534	R396	1187	1126	T48	Com33	33.0	35.1	37.3
368311	4677910	R397	866	1244	T48	Com33	33.8	31.3	35.8
369092	4678079	R766	566	813	T48	Com33	36.9	36.2	39.6
369529	4678124	R767	752	800	T58	Com33	36.0	36.4	39.3
369675	4678096	R768	768	807	T58	Com33	35.4	36.4	39.1
369771	4678022	R769	849	777	T58	Com33	33.7	35.0	37.3
369812	4678009	R770	868	785	T58	Com33	34.5	36.7	38.9
370138	4678016	R771	910	996	T57	Com33	32.9	33.1	36.0
370436	4678048	R772	791	1248	T57	Com33	32.6	31.9	35.3
370618	4678042	R773	794	1398	T57	Com33	32.1	31.5	34.9
360862	4677632	R775	672	864	T15	Com48	35.1	34.5	37.6
369675	4678141	R782	723	850	T58	Com33	34.9	34.0	37.4
358759	4677771	R870	756	1464	T14	Com45	35.3	31.3	36.7
360874	4678256	R1146	709	1357	T13	Com48	37.0	32.4	38.3

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	Comber	Belle River	Comber	Belle River	Comber	
360797	4678158	R1147	611	1311	T13	Com48	36.5	30.7	37.5
360778	4678088	R1148	584	1264	T13	Com48	36.7	31.1	37.7
360769	4678042	R1149	574	1232	T13	Com48	36.8	31.3	37.8
360877	4678051	R1150	683	1178	T13	Com48	35.8	31.6	37.1
360866	4678006	R1151	673	1146	T13	Com48	35.9	31.8	37.2
360874	4677949	R1152	687	1095	T13	Com48	36.6	34.3	38.6
360871	4677910	R1153	691	1065	T13	Com48	35.7	32.5	37.3
360846	4677846	R1154	677	1030	T15	Com48	36.7	34.9	38.9
360777	4677789	R1155	597	1034	T15	Com48	37.2	35.0	39.2
360880	4677684	R1156	690	887	T15	Com48	35.1	34.2	37.5
361503	4678444	R1158	671	1390	T16	Com48	36.3	32.0	37.7
361527	4678449	R1159	661	1395	T16	Com48	36.4	32.0	37.7
362219	4677819	R1182	1389	1046	T16	Com48	32.4	33.8	36.1
362229	4677939	R1183	1285	1143	T16	Com48	32.7	32.9	35.8
362231	4677990	R1184	1240	1184	T16	Com48	32.9	32.6	35.7
362175	4678162	R1185	1061	1294	T16	Com48	34.9	34.0	37.5
362253	4678246	R1186	1031	1407	T16	Com48	33.6	32.0	35.8
366264	4675706	R1367	1490	774	T37	Com55	29.2	37.5	38.1
366255	4675739	R1368	1455	803	T37	Com55	29.4	37.2	37.9
366014	4675825	R1369	1303	1039	T37	Com55	31.6	37.3	38.4
364669	4675916	R1372	1299	1461	T35	Com51	31.8	34.4	36.3
364289	4675895	R1373	1281	1173	T35	Com51	31.5	35.8	37.2
364298	4675953	R1374	1222	1141	T35	Com51	31.8	35.9	37.3
364834	4676315	R1375	989	1449	T35	Com51	34.2	33.7	36.9
364855	4676528	R1376	824	1428	T35	Com51	35.5	33.4	37.6
364915	4676480	R1378	899	1494	T35	Com51	35.2	33.3	37.4
366252	4676015	R1382	1201	1021	T37	Com55	31.8	37.7	38.7
366261	4676064	R1383	1161	1044	T37	Com56	32.0	37.5	38.6
366262	4676094	R1384	1135	1057	T37	Com56	31.2	35.4	36.7
366309	4676182	R1385	1083	1062	T37	Com56	32.6	37.2	38.5
366464	4676336	R1386	1057	1040	T37	Com56	32.9	37.3	38.6
366676	4676672	R1396	1037	1092	T37	Com58	33.6	36.5	38.3
364847	4676567	R1397	789	1416	T35	Com51	34.8	31.1	36.3
364845	4676612	R1398	753	1410	T35	Com51	36.1	33.3	37.9
364850	4676650	R1399	729	1413	T35	Com51	35.4	31.0	36.7
364862	4676719	R1400	690	1424	T35	Com51	36.8	33.1	38.3

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	Comber	Belle River	Comber	Belle River	Comber	
364870	4676765	R1401	667	1434	T35	Com51	37.1	33.1	38.5
364932	4676712	R1402	748	1494	T35	Com51	36.7	32.9	38.2
364870	4676871	R1403	608	1442	T35	Com51	36.8	30.6	37.7
364892	4676351	R1406	989	1496	T35	Com51	33.4	31.2	35.4
358660	4677640	R1734	879	1421	T14	Com45	34.8	31.5	36.5
360899	4678426	V2566	773	1499	T12	Com48	37.1	31.5	38.2
368327	4678133	V2582	693	1349	T48	Com33	36.0	32.5	37.7
360706	4676792	V2609	1023	841	T15	Com48	32.2	38.6	39.5
360708	4676822	V2610	998	830	T15	Com48	32.3	38.6	39.5
358506	4676948	V2613	1329	1152	T206	Com45	32.3	33.7	36.1
358522	4676912	V2614	1366	1125	T206	Com45	32.2	34.0	36.2
366309	4676586	V2617	772	1328	T37	Com56	35.1	35.3	38.2
358496	4676880	V2619	1376	1141	T206	Com45	32.1	33.9	36.1
358912	4677654	V2690	635	1282	T14	Com45	35.6	32.6	37.4
360791	4678354	V2694	668	1483	T13	Com48	37.6	31.7	38.6
360785	4678256	V2701	624	1401	T13	Com48	37.5	32.2	38.7
360731	4677452	V2712	585	870	T15	Com48	36.2	36.8	39.5
360759	4677845	V2732	593	1087	T15	Com48	37.4	34.6	39.3
362145	4678256	V2733	965	1361	T16	Com48	34.7	33.1	37.0
360907	4677482	V2734	742	735	T15	Com48	35.0	37.7	39.6
360878	4677973	V2743	688	1112	T13	Com48	36.6	34.1	38.6
362255	4678065	V2745	1184	1258	T16	Com48	34.2	34.1	37.2
363535	4677819	V2751	566	1121	T34	Com51	38.2	35.0	39.9
362232	4677730	V2752	1476	992	T16	Com48	33.2	36.4	38.1
370514	4678064	V2779	769	1322	T57	Com33	33.5	34.0	36.9
369961	4678104	V2781	817	946	T58	Com33	34.8	35.4	38.2
370296	4678080	V2783	792	1157	T57	Com33	34.0	34.4	37.4
369611	4678129	V2786	738	821	T58	Com33	35.9	36.2	39.1
369345	4678032	V2788	747	703	T48	Com33	35.7	37.4	39.7
368321	4677722	V2789	1015	1160	T48	Com33	33.9	34.4	37.3
367594	4677472	V2824	881	1190	T47	Com58	34.2	34.3	37.3
358707	4677248	V2873	1015	1117	T14	Com45	33.4	33.9	36.7
358973	4677377	V2874	728	1020	T14	Com45	34.6	34.7	37.7
364850	4676817	V2879	620	1417	T35	Com51	37.4	33.1	38.8
364760	4676671	V2880	653	1323	T35	Com51	36.6	33.6	38.4
364725	4676368	V2881	892	1330	T35	Com51	34.5	34.0	37.3

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	Comber	Belle River	Comber	Belle River	Comber	Total ¹
366284	4675928	V2923	1293	931	T37	Com55	31.2	38.3	39.1
366275	4675818	V2926	1390	849	T37	Com55	30.7	38.8	39.5
364507	4675913	V2935	1272	1329	T35	Com51	31.7	34.9	36.6
363927	4676060	V2944	1190	807	T35	Com51	32.0	38.3	39.2
358260	4676659	V2973	1449	1337	T206	Com45	31.3	32.5	34.9
358265	4676699	V2974	1415	1335	T206	Com45	31.4	32.5	35.0
358329	4676669	V2975	1470	1269	T206	Com45	31.2	33.0	35.2
358463	4676948	V3010	1302	1193	T206	Com45	32.4	33.4	35.9
358433	4676951	V3011	1281	1222	T206	Com45	32.4	33.1	35.8
358400	4676952	V3012	1261	1254	T206	Com45	32.4	32.9	35.7
358369	4676955	V3013	1241	1284	T206	Com45	32.5	32.6	35.6
358338	4676959	V3014	1222	1315	T206	Com45	32.6	32.4	35.5
358332	4676898	V3015	1270	1304	T206	Com45	32.3	32.5	35.4
358363	4676898	V3016	1286	1274	T206	Com45	32.2	32.7	35.5
358394	4676892	V3017	1308	1243	T206	Com45	32.1	33.0	35.6
358424	4676892	V3018	1325	1214	T206	Com45	32.1	33.3	35.8
358454	4676889	V3019	1345	1184	T206	Com45	32.1	33.5	35.9
358266	4676962	V3020	1182	1385	T206	Com45	32.7	31.9	35.4
358261	4676919	V3021	1216	1378	T206	Com45	32.5	32.0	35.3
364815	4676458	V3090	857	1399	T35	Com51	35.1	33.6	37.4
360897	4678162	V3091	711	1263	T13	Com48	36.7	33.0	38.3
360698	4676632	V3363	1160	911	T15	Com48	31.4	38.7	39.4

1. Total sound level includes contributions from all sources.

Table 7-4 Concordance table showing contributions from Belle River and Pointe-Aux-Roche at shared receptors

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	Total ¹
365267	4681046	R270	771	1407	T28	PAR_T220	35.2	30.0	36.4
365298	4681105	R271	821	1350	T28	PAR_T220	33.8	28.8	34.9
365327	4681024	R272	820	1368	T28	PAR_T220	35.0	30.2	36.3
365386	4681022	R273	877	1321	T28	PAR_T220	34.7	30.5	36.2
365363	4681097	R274	878	1298	T28	PAR_T220	33.5	29.1	34.8
365431	4681094	R275	942	1243	T28	PAR_T220	34.3	31.1	36.0
365457	4681025	R276	945	1262	T28	PAR_T220	33.6	29.4	34.9
365517	4681028	R277	1004	1213	T28	PAR_T220	33.4	29.8	34.9
365544	4681074	R278	1042	1163	T28	PAR_T220	33.0	30.2	34.7
365541	4681112	R279	1052	1143	T28	PAR_T220	33.9	31.8	36.0
365382	4681183	R280	931	1238	T28	PAR_T220	33.1	29.6	34.6
365405	4681191	R281	955	1214	T28	PAR_T220	34.4	31.8	36.3
365341	4681173	R282	890	1279	T28	PAR_T220	34.3	30.9	35.9
365320	4681196	R283	882	1287	T28	PAR_T220	34.2	30.8	35.9
365233	4681175	R284	795	1374	T28	PAR_T220	33.8	28.6	34.9
365236	4681246	R285	835	1341	T28	PAR_T220	34.3	30.5	35.8
365248	4681311	R286	883	1305	T28	PAR_T220	33.9	30.7	35.7
365255	4681241	R287	849	1326	T28	PAR_T220	34.3	30.6	35.8
365273	4681241	R288	863	1309	T28	PAR_T220	34.2	30.7	35.8
365320	4681299	R398	935	1243	T28	PAR_T220	32.8	30.2	34.5
365320	4681320	R399	947	1235	T28	PAR_T220	33.7	31.4	35.7
365320	4681344	R400	961	1226	T28	PAR_T220	33.5	31.5	35.7
365322	4681357	R401	970	1219	T28	PAR_T220	33.5	31.7	35.7
365318	4681377	R402	979	1216	T28	PAR_T220	33.4	31.7	35.6
365333	4681411	R403	1012	1191	T28	PAR_T220	33.2	32.1	35.7
365339	4681430	R404	1028	1179	T28	PAR_T220	32.4	31.6	35.0
365351	4681445	R405	1047	1163	T28	PAR_T220	33.0	32.0	35.5
365360	4681462	R406	1065	1150	T28	PAR_T220	33.0	32.0	35.5
365357	4681314	R407	974	1203	T28	PAR_T220	33.6	31.7	35.8
365359	4681288	R408	962	1212	T28	PAR_T220	33.7	31.5	35.8
365350	4681269	R409	944	1228	T28	PAR_T220	33.8	31.4	35.8
365384	4681230	R410	954	1214	T28	PAR_T220	33.9	31.5	35.9
365409	4681233	R411	977	1191	T28	PAR_T220	33.8	31.8	35.9
365435	4681229	R412	999	1170	T28	PAR_T220	33.7	32.2	36.0
365465	4681229	R413	1025	1143	T28	PAR_T220	33.7	32.4	36.1

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	
365486	4681222	R414	1041	1129	T28	PAR_T220	34.1	32.6	36.4
365770	4681124	R415	1224	959	T41	PAR_T220	33.9	33.7	36.8
365663	4681454	R416	1307	867	T28	PAR_T220	32.4	34.3	36.5
365658	4681411	R417	1281	888	T28	PAR_T220	32.6	34.1	36.4
365640	4681381	R418	1251	918	T28	PAR_T220	33.2	34.1	36.7
365707	4681348	R419	1295	874	T28	PAR_T220	32.9	34.2	36.6
365693	4681228	R420	1234	952	T28	PAR_T220	33.7	33.9	36.8
365823	4681228	R421	1330	850	T41	PAR_T220	32.0	33.1	35.5
365524	4681222	R422	1076	1096	T28	PAR_T220	33.5	32.4	36.0
365770	4681634	R440	1495	710	T28	PAR_T220	31.8	36.2	37.5
365726	4681582	R442	1430	765	T28	PAR_T220	31.7	36.3	37.4
365711	4681557	R443	1403	786	T28	PAR_T220	31.9	35.3	37.0
365672	4681478	R444	1328	849	T28	PAR_T220	32.3	34.5	36.6
365468	4681497	R445	1172	1036	T28	PAR_T220	33.3	31.7	35.6
365494	4681534	R446	1214	1001	T28	PAR_T220	32.4	33.4	36.0
365544	4681595	R447	1292	939	T28	PAR_T220	32.0	34.2	36.3
365378	4681490	R448	1097	1125	T28	PAR_T220	32.8	32.2	35.5
365398	4681517	R449	1130	1099	T28	PAR_T220	32.6	32.4	35.5
365413	4681539	R450	1156	1079	T28	PAR_T220	31.4	31.2	34.2
365427	4681554	R451	1177	1062	T28	PAR_T220	31.3	31.3	34.2
365449	4681583	R452	1212	1034	T28	PAR_T220	31.1	31.6	34.3
365467	4681626	R453	1254	1009	T28	PAR_T220	30.9	31.9	34.4
365474	4681646	R454	1272	999	T28	PAR_T220	30.8	32.0	34.4
365482	4681669	R455	1294	988	T28	PAR_T220	30.7	32.1	34.4
365490	4681693	R456	1317	978	T28	PAR_T220	30.6	32.3	34.5
365499	4681737	R457	1354	965	T28	PAR_T220	31.4	33.8	35.8
365506	4681759	R458	1374	957	T28	PAR_T220	31.4	33.9	35.8
365512	4681781	R459	1395	951	T28	PAR_T220	30.3	32.7	34.6
365561	4681661	R460	1348	911	T28	PAR_T220	31.7	34.3	36.2
365671	4681701	R461	1457	797	T28	PAR_T220	32.1	37.1	38.3
365622	4681704	R462	1421	845	T28	PAR_T220	30.8	33.7	35.4
365590	4681702	R463	1397	877	T28	PAR_T220	30.6	33.3	35.1
365560	4681702	R464	1374	907	T28	PAR_T220	31.6	34.3	36.2
365574	4681767	R465	1429	889	T28	PAR_T220	31.2	34.6	36.2
365605	4681763	R466	1448	858	T28	PAR_T220	31.4	35.0	36.6
365640	4681759	R467	1472	823	T28	PAR_T220	30.3	34.0	35.5
365671	4681761	R468	1496	792	T28	PAR_T220	31.8	36.1	37.5

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	
365535	4681841	R469	1454	922	T28	PAR_T216	31.0	34.4	36.0
365582	4681856	R470	1497	873	T28	PAR_T216	30.9	35.1	36.5
365532	4681869	R471	1473	915	T28	PAR_T216	30.9	34.5	36.0
370625	4680680	R715	580	913	T52	PAR_T230	37.4	32.2	38.5
370808	4680770	R716	758	790	T52	PAR_T230	34.6	33.5	37.0
371228	4680756	R717	1061	874	T52	PAR_T230	32.6	34.6	36.8
371327	4680661	R718	1100	1002	T52	PAR_T230	31.0	32.1	34.7
371494	4680733	R719	1281	1029	T52	PAR_T230	30.8	34.1	36.0
368446	4681295	R751	1458	1031	T55	PAR_T229	29.5	33.4	34.9
368484	4680884	R752	1283	1372	T55	PAR_T229	31.9	32.8	35.5
368443	4681051	R765	1319	1213	T55	PAR_T229	31.4	33.8	35.8
365881	4681223	R776	1329	810	T41	PAR_T220	32.9	34.8	37.0
365696	4681324	R784	1275	896	T28	PAR_T220	33.4	32.6	35.8
365664	4681516	R785	1342	844	T28	PAR_T220	32.2	34.7	36.6
365447	4681484	R794	1147	1060	T28	PAR_T220	33.3	33.7	36.4
365492	4681713	R795	1332	974	T28	PAR_T220	30.6	32.4	34.5
358703	4679999	R953	933	1488	T11	Transformer	34.4	21.2	34.7
358712	4680026	R956	933	1460	T11	Transformer	34.4	21.4	34.7
358712	4680059	R957	943	1429	T11	Transformer	35.6	23.9	36.0
358618	4680060	R958	1032	1466	T11	Transformer	34.2	21.4	34.5
358644	4680099	R959	1021	1420	T11	Transformer	35.5	24.0	35.9
358636	4680188	R960	1063	1343	T11	Transformer	34.1	22.4	34.5
358710	4680331	R961	1068	1182	T11	Transformer	34.1	23.9	34.5
358711	4680360	R962	1084	1156	T11	Transformer	34.1	24.2	34.5
358712	4680386	R963	1099	1132	T11	Transformer	34.0	24.4	34.5
358712	4680417	R964	1117	1105	T11	Transformer	34.0	24.7	34.5
358714	4680443	R965	1131	1081	T11	Transformer	35.3	27.0	36.0
358714	4680471	R966	1149	1057	T11	Transformer	35.3	27.3	36.0
358714	4680501	R967	1168	1031	T11	Transformer	33.9	25.5	34.5
358714	4680530	R968	1187	1006	T11	Transformer	33.9	25.8	34.5
358718	4680558	R969	1203	981	T11	Transformer	33.8	26.1	34.5
358716	4680594	R970	1230	952	T11	Transformer	33.8	26.4	34.5
358642	4680331	R971	1126	1214	T11	Transformer	35.4	25.7	35.9
358636	4680360	R972	1146	1192	T11	Transformer	34.0	23.8	34.5
358630	4680387	R973	1166	1172	T11	Transformer	35.3	26.1	35.9
358635	4680416	R974	1178	1145	T11	Transformer	34.0	24.3	34.5
358637	4680446	R975	1194	1119	T11	Transformer	34.0	24.6	34.5

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	Total ¹
358644	4680542	R976	1218	1035	T200	Transformer	35.2	27.5	36.0
358634	4680517	R977	1215	1061	T200	Transformer	34.0	25.2	34.5
358645	4680571	R978	1212	1011	T200	Transformer	33.9	25.7	34.5
358645	4680595	R979	1205	992	T200	Transformer	35.2	27.9	36.0
358639	4680626	R980	1193	971	T200	Transformer	35.2	28.2	36.1
358648	4680653	R981	1196	945	T200	Transformer	33.9	26.5	34.6
358644	4680712	R982	1184	902	T200	Transformer	34.4	27.0	35.1
358646	4680742	R983	1182	879	T200	Transformer	34.5	28.0	35.3
358646	4680781	R984	1179	851	T200	Transformer	34.6	28.3	35.3
358649	4680818	R985	1179	823	T200	Transformer	35.1	29.9	36.3
358264	4680467	R993	889	1344	T200	Transformer	36.6	24.7	36.9
358294	4680540	R994	886	1272	T200	Transformer	36.5	25.3	36.9
358337	4680566	R995	917	1223	T200	Transformer	36.8	25.9	37.2
358283	4680613	R996	851	1233	T200	Transformer	36.7	25.6	37.1
358314	4680661	R997	868	1179	T200	Transformer	36.6	26.1	37.0
358323	4680687	R998	871	1156	T200	Transformer	36.5	26.3	37.0
358236	4680685	R999	787	1228	T200	Transformer	36.0	23.5	36.3
358312	4680776	R1000	846	1114	T200	Transformer	36.7	26.7	37.2
358357	4680911	R1006	887	1007	T200	Transformer	36.4	27.8	37.0
358364	4680945	R1007	896	985	T200	Transformer	35.2	26.0	35.6
358349	4680993	R1008	887	978	T200	Transformer	35.3	26.1	35.7
358309	4681040	R1009	856	998	T200	Transformer	36.7	27.9	37.3
358415	4681212	R1010	940	848	T204	Transformer	35.8	29.6	36.7
358355	4681187	R1011	882	912	T204	Transformer	36.2	28.9	37.0
358382	4681241	R1012	904	875	T204	Transformer	35.9	29.3	36.8
358372	4681279	R1013	894	879	T204	Transformer	35.9	29.7	36.8
358363	4681312	R1014	885	885	T204	Transformer	35.9	29.4	36.7
358354	4681334	R1015	878	892	T204	Transformer	35.9	29.2	36.7
358299	4681452	R1016	838	948	T204	Transformer	35.9	28.6	36.7
358652	4680854	R1017	1182	796	T200	Transformer	35.1	30.2	36.4
358717	4680848	R1018	1246	753	T200	Transformer	34.9	30.8	36.4
358659	4680882	R1019	1189	772	T200	Transformer	34.4	28.7	35.4
358729	4680935	R1020	1261	685	T200	Transformer	34.6	31.7	36.5
358729	4680960	R1021	1262	668	T200	Transformer	33.3	30.3	35.0
358729	4680989	R1022	1265	650	T200	Transformer	33.3	30.6	35.1
358735	4681017	R1023	1273	629	T200	Transformer	34.5	32.6	36.7
358723	4681052	R1024	1266	619	T200	Transformer	33.2	31.1	35.2

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	
358657	4681031	R1025	1197	686	T200	Transformer	34.7	31.7	36.5
358659	4681085	R1026	1197	658	T204	Transformer	33.4	30.5	35.1
358664	4681109	R1027	1199	643	T204	Transformer	34.6	32.4	36.7
358659	4681136	R1028	1190	637	T204	Transformer	35.0	32.5	37.0
358737	4681174	R1029	1263	550	T204	Transformer	33.0	32.4	35.6
358756	4681257	R1030	1278	505	T204	Transformer	32.8	33.3	35.9
358659	4681304	R1031	1181	592	T204	Transformer	34.3	33.2	36.8
358607	4681340	R1032	1130	640	T204	Transformer	34.5	32.4	36.6
358681	4681355	R1033	1205	565	T204	Transformer	32.8	32.1	35.4
358683	4681391	R1034	1209	562	T204	Transformer	33.9	33.7	36.8
358685	4681417	R1035	1214	561	T204	Transformer	33.9	33.7	36.8
358687	4681444	R1036	1219	561	T204	Transformer	32.6	32.2	35.3
358613	4681441	R1037	1146	634	T204	Transformer	34.1	32.5	36.4
358654	4681501	R1038	1196	602	T204	Transformer	32.8	31.4	34.9
358765	4681493	R1039	1304	492	T204	Transformer	33.4	34.9	37.3
359791	4681481	R1040	1380	554	T8	Transformer	31.6	32.3	34.9
359944	4681492	R1042	1370	707	T8	Transformer	31.6	29.7	33.7
365131	4681193	R1043	719	1458	T28	PAR_T220	34.3	28.1	35.2
365109	4681197	R1044	704	1477	T28	PAR_T220	35.3	29.6	36.4
365056	4681413	R1047	816	1456	T28	PAR_T220	33.2	28.2	34.3
365089	4681328	R1050	775	1449	T28	PAR_T220	34.5	29.8	35.8
365123	4681282	R1051	768	1432	T28	PAR_T220	34.7	29.9	35.9
365163	4681275	R1052	794	1397	T28	PAR_T220	34.5	30.1	35.9
365193	4681274	R1053	817	1370	T28	PAR_T220	34.4	30.3	35.8
358848	4681590	R1054	1403	447	T204	Transformer	32.9	35.8	37.6
358702	4681534	R1055	1249	563	T204	Transformer	33.6	33.6	36.6
358692	4681571	R1056	1247	583	T204	Transformer	33.6	31.8	35.4
358477	4681552	R1057	1034	786	T204	Transformer	33.3	28.6	34.5
358282	4681545	R1058	845	976	T204	Transformer	35.7	28.2	36.4
358286	4681592	R1059	865	981	T204	Transformer	34.3	26.1	34.8
358019	4681622	R1060	638	1249	T204	Transformer	36.5	23.3	36.6
357997	4681664	R1061	643	1279	T204	Transformer	37.3	25.2	37.6
358766	4681708	R1062	1356	578	T204	Transformer	32.9	33.4	36.2
358704	4681732	R1063	1305	643	T204	Transformer	33.0	31.9	35.2
358699	4681775	R1064	1316	671	T204	Transformer	32.9	31.9	35.5
358664	4681804	R1065	1295	716	T204	Transformer	32.9	29.5	34.5
358708	4681900	R1066	1375	744	T204	Transformer	31.1	29.1	33.2

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	
358708	4681953	R1067	1399	782	T204	Transformer	32.1	30.4	34.4
358735	4682001	R1068	1446	800	T204	Transformer	31.9	30.2	34.1
358667	4682005	R1069	1390	848	T204	Transformer	32.1	29.6	34.0
358258	4681830	R1074	951	1083	T204	Transformer	34.4	27.1	35.2
358229	4681930	R1075	991	1153	T204	Transformer	34.0	26.9	34.8
358228	4681965	R1076	1013	1171	T204	Transformer	33.9	26.7	34.7
358222	4681995	R1077	1028	1191	T204	Transformer	33.8	26.4	34.5
358228	4682059	R1078	1078	1220	T204	Transformer	33.4	26.4	34.2
358225	4682093	R1079	1101	1242	T204	Transformer	32.0	25.4	32.9
358261	4682223	R1080	1222	1292	T204	Transformer	31.2	23.6	31.9
358271	4682268	R1081	1262	1315	T204	Transformer	32.2	25.4	33.0
358296	4682319	R1082	1319	1332	T204	Transformer	31.8	25.2	32.7
366720	4681072	R1108	885	760	T55	PAR_T220	33.7	37.4	39.0
366894	4681162	R1109	862	644	T55	PAR_T225	32.5	37.6	38.7
366999	4681057	R1110	722	706	T55	PAR_T225	34.4	37.8	39.5
367361	4681122	R1111	726	643	T55	PAR_T225	34.1	38.4	39.8
367767	4681008	R1112	770	938	T55	PAR_T225	33.7	36.0	38.1
368082	4681079	R1113	1039	1010	T55	PAR_T229	32.1	35.3	37.1
366550	4681087	R1165	1014	705	T55	PAR_T220	33.4	37.1	38.7
366503	4680550	R1166	807	1238	T55	PAR_T220	34.9	30.9	36.3
360502	4681470	R1218	1342	1260	T51	Transformer	32.4	23.2	32.9
360535	4681468	R1219	1314	1293	T51	Transformer	32.5	22.9	32.9
360581	4681561	R1220	1328	1348	T51	Transformer	32.1	22.4	32.6
360580	4681463	R1221	1273	1337	T51	Transformer	33.7	24.7	34.3
358695	4681595	R1239	1256	589	T204	Transformer	34.1	31.7	35.8
358776	4681589	R1246	1333	511	T204	Transformer	33.6	34.6	37.1
358770	4681554	R1247	1320	504	T204	Transformer	33.2	34.7	37.0
358735	4681201	R1248	1259	542	T204	Transformer	34.2	34.0	37.1
358358	4682461	R1255	1469	1394	T204	Transformer	31.0	24.3	31.8
358233	4681892	R1256	969	1132	T204	Transformer	33.1	24.8	33.6
358400	4681693	R1257	1008	899	T204	Transformer	33.1	27.1	34.0
358375	4681614	R1258	956	900	T204	Transformer	33.6	27.1	34.4
358503	4681714	R1264	1111	812	T204	Transformer	32.5	28.2	33.8
365199	4680987	R1293	687	1496	T28	PAR_T220	35.9	29.4	36.8
365203	4681012	R1294	699	1479	T28	PAR_T220	35.7	29.5	36.7
365200	4681036	R1295	705	1469	T28	PAR_T220	35.6	29.6	36.6
365204	4681058	R1296	717	1455	T28	PAR_T220	35.5	29.7	36.5

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	
365204	4681078	R1297	725	1445	T28	PAR_T220	35.4	29.7	36.5
365214	4681120	R1298	753	1416	T28	PAR_T220	35.1	29.9	36.3
365294	4680851	R1300	753	1498	T28	PAR_T220	34.8	27.8	35.6
365151	4681107	R1308	691	1478	T28	PAR_T220	35.5	29.5	36.6
365151	4681071	R1309	674	1495	T28	PAR_T220	35.7	29.4	36.7
365155	4681130	R1310	705	1464	T28	PAR_T220	35.4	29.6	36.5
365207	4681161	R1312	766	1403	T28	PAR_T220	34.9	30.0	36.2
365210	4681185	R1313	781	1390	T28	PAR_T220	34.8	30.1	36.1
365171	4681208	R1314	760	1416	T28	PAR_T220	34.9	30.0	36.1
365166	4681171	R1315	735	1436	T28	PAR_T220	35.5	30.3	36.7
365300	4681264	V2480	899	1275	T28	PAR_T220	34.0	31.1	35.8
365300	4681264	V2481	899	1275	T28	PAR_T220	34.0	31.1	35.8
358881	4681521	V2483	1423	389	T204	Transformer	33.0	37.1	38.5
365219	4681109	V2558	752	1417	T28	PAR_T220	35.1	29.9	36.3
365225	4681205	V2562	803	1368	T28	PAR_T220	34.6	30.3	36.0
368531	4680929	V2585	1344	1363	T55	PAR_T229	31.7	32.9	35.4
365666	4681237	V2587	1212	968	T28	PAR_T220	33.2	33.4	36.3
365440	4681175	V2588	980	1192	T28	PAR_T220	33.9	31.6	35.9
365559	4681359	V2589	1170	1000	T28	PAR_T220	33.1	33.1	36.1
365512	4681174	V2591	1046	1131	T28	PAR_T220	33.8	31.9	36.0
365269	4681186	V2592	832	1337	T28	PAR_T220	34.5	30.5	36.0
365300	4681184	V2593	858	1310	T28	PAR_T220	34.4	30.6	35.9
365360	4681180	V2594	910	1259	T28	PAR_T220	34.2	31.0	35.9
365347	4681245	V2595	928	1241	T28	PAR_T220	33.9	31.3	35.8
365366	4681366	V2599	1011	1175	T28	PAR_T220	33.4	31.9	35.7
365368	4681243	V2600	946	1223	T28	PAR_T220	33.9	31.4	35.8
366486	4680499	V2601	816	1288	T55	PAR_T220	36.1	32.1	37.6
358809	4681933	V2641	1481	700	T204	Transformer	31.9	31.5	34.7
358718	4682059	V2687	1462	856	T204	Transformer	31.8	29.5	33.8
358753	4681109	V2702	1287	564	T204	Transformer	34.3	33.6	37.0
358743	4680892	V2703	1272	704	T200	Transformer	34.7	31.5	36.4
358735	4680638	V2707	1247	904	T11	Transformer	35.0	28.9	36.1
358720	4680109	V2719	955	1380	T11	Transformer	35.6	24.3	36.0
371419	4680637	V2773	1173	1067	T52	PAR_T230	31.7	33.6	36.0
368385	4680732	V2776	1139	1452	T55	PAR_T229	32.5	32.3	35.5
370144	4680740	V2777	599	1098	T52	PAR_T230	38.0	32.7	39.2
371644	4680623	V2784	1378	1208	T52	PAR_T230	30.1	33.6	35.5

UTM coordinates		Noise receptor ID	Distance to nearest source [m]		Nearest source ID		Level of farm [dBA]		Level [dBA]
Easting [m]	Northing [m]		Belle River	PAR	Belle River	PAR	Belle River	PAR	
371024	4680648	V2785	832	921	T52	PAR_T230	34.8	33.9	37.5
368641	4680939	V2807	1449	1424	T55	PAR_T229	31.6	32.7	35.2
366574	4680399	V2811	722	1392	T55	PAR_T220	36.7	31.6	38.0
366601	4680810	V2812	807	987	T55	PAR_T220	34.9	34.7	37.8
367410	4680993	V2817	605	781	T55	PAR_T225	35.3	36.9	39.2
365786	4681324	V2826	1357	820	T28	PAR_T220	32.7	34.7	36.8
366489	4680802	V2827	901	985	T55	PAR_T220	34.7	34.3	37.6
370713	4680807	V2834	734	768	T52	PAR_T230	36.0	35.1	38.7
366458	4680343	V2838	839	1444	T55	PAR_T220	36.7	31.0	37.8
365800	4681476	V2883	1437	732	T28	PAR_T220	32.1	35.7	37.3
369814	4680875	V2889	877	1264	T52	PAR_T230	34.7	32.3	36.8
371395	4680767	V2892	1210	944	T52	PAR_T230	31.3	34.4	36.3
358158	4680384	V3079	820	1478	T201	Transformer	37.1	23.6	37.3
358620	4680478	V3108	1214	1101	T200	Transformer	35.3	26.8	36.0
358368	4680469	V3109	982	1268	T200	Transformer	36.1	25.3	36.5
358191	4680594	V3110	770	1318	T200	Transformer	37.3	24.8	37.6
358271	4681075	V3112	820	1022	T204	Transformer	37.0	27.6	37.5
358364	4681426	V3114	897	882	T204	Transformer	35.6	29.4	36.5
358140	4681625	V3115	745	1131	T204	Transformer	36.4	26.6	36.8
358260	4681767	V3116	918	1056	T204	Transformer	34.7	27.3	35.5
358691	4681832	V3117	1331	712	T204	Transformer	32.7	31.4	35.1
358694	4681868	V3118	1349	733	T204	Transformer	32.6	31.1	34.9
358303	4682391	V3120	1380	1378	T204	Transformer	31.4	24.4	32.2
358279	4681503	V3339	830	973	T204	Transformer	35.9	28.2	36.5
358265	4680947	V3340	798	1073	T200	Transformer	37.1	27.1	37.6
358261	4680919	V3341	792	1089	T200	Transformer	37.1	26.9	37.6
358550	4680606	V3342	1111	1044	T200	Transformer	35.4	27.4	36.1
358368	4680879	V3343	897	1013	T200	Transformer	36.3	27.7	36.9
358368	4680853	V3344	897	1026	T200	Transformer	36.3	27.6	36.9
358363	4680823	V3345	893	1046	T200	Transformer	36.4	27.4	36.9
358320	4680720	V3346	862	1139	T200	Transformer	36.6	26.5	37.0

1. Total sound level includes contributions from all sources.



8 CONCLUSION

Based on the approach presented in this NIA, the Project is compliant with the MOE noise limits at all PoR within 1,500 m of the Project's noise sources, for wind speeds of 6, 7, 8, 9, and 10 m/s.

9 REFERENCES

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- [8] HGC Engineering. Environmental Acoustic Assessment Report – Pointe-Aux-Roches Wind Transformer Station – Town of Lakeshore, County of Essex, Ontario. 13 May 2010.
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- [13] International Electrotechnical Commission (IEC), IEC 61400–11 Ed. 3.0 Wind turbines – Part 11: Acoustic noise measurement techniques. 58 p., 2012.
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- [18] International Organization for Standardization (ISO), 1996. Acoustics - Attenuation of Sound During Propagation Outdoors - General Method of Calculation. ISO 9613-2. 25 p.



APPENDIX A – ZONING AND NOISE ISO-CONTOUR MAPS

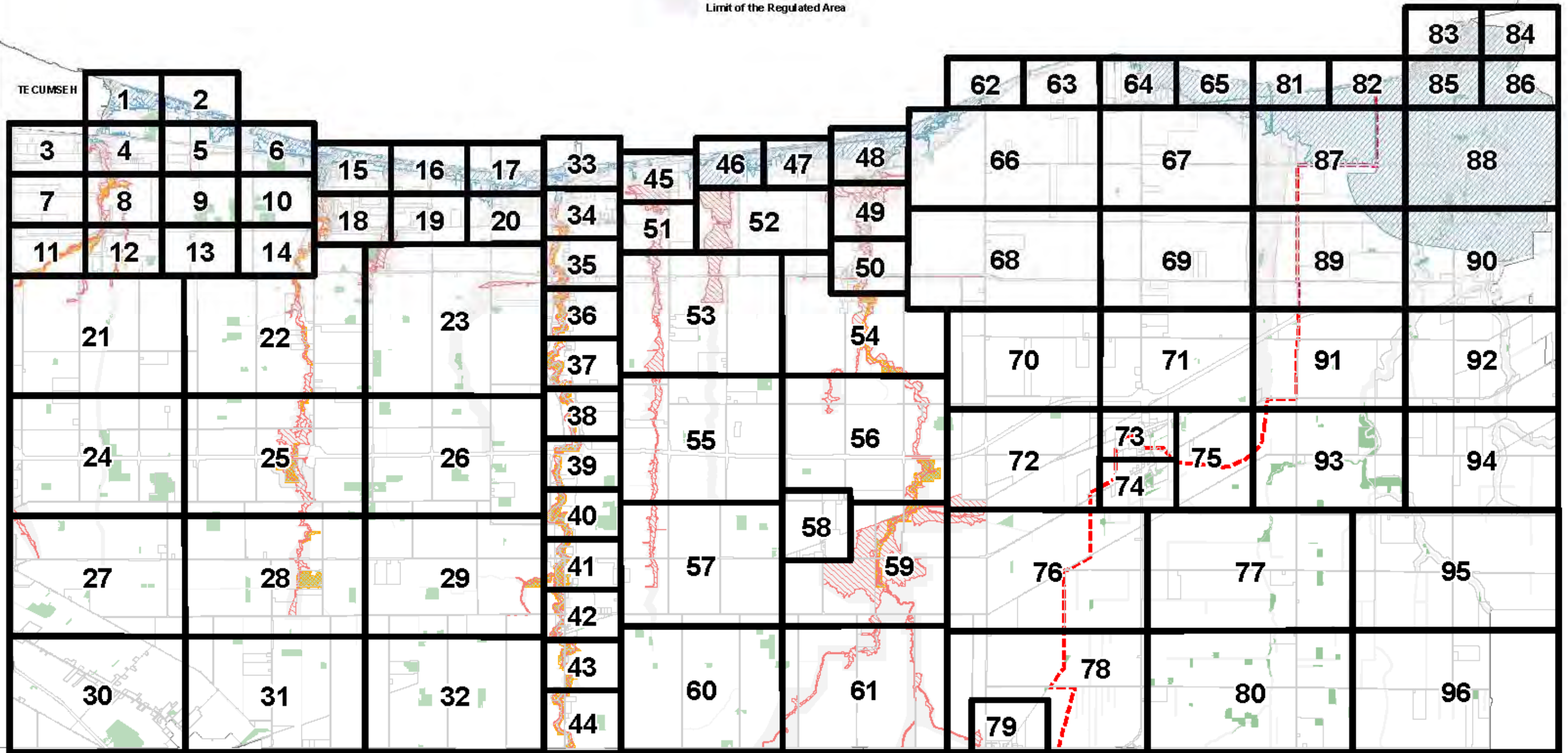


Town of Lakeshore Zone Map Index

Schedule "A"

Council Adoption - January 2012

- Lake St. Clair Floodprone Area
- Inland Floodplain Development Control Area
- Conservation Authority Jurisdiction Boundary
- Significant Valley Lands (ERCA)
- Woodlands
- Limit of the Regulated Area

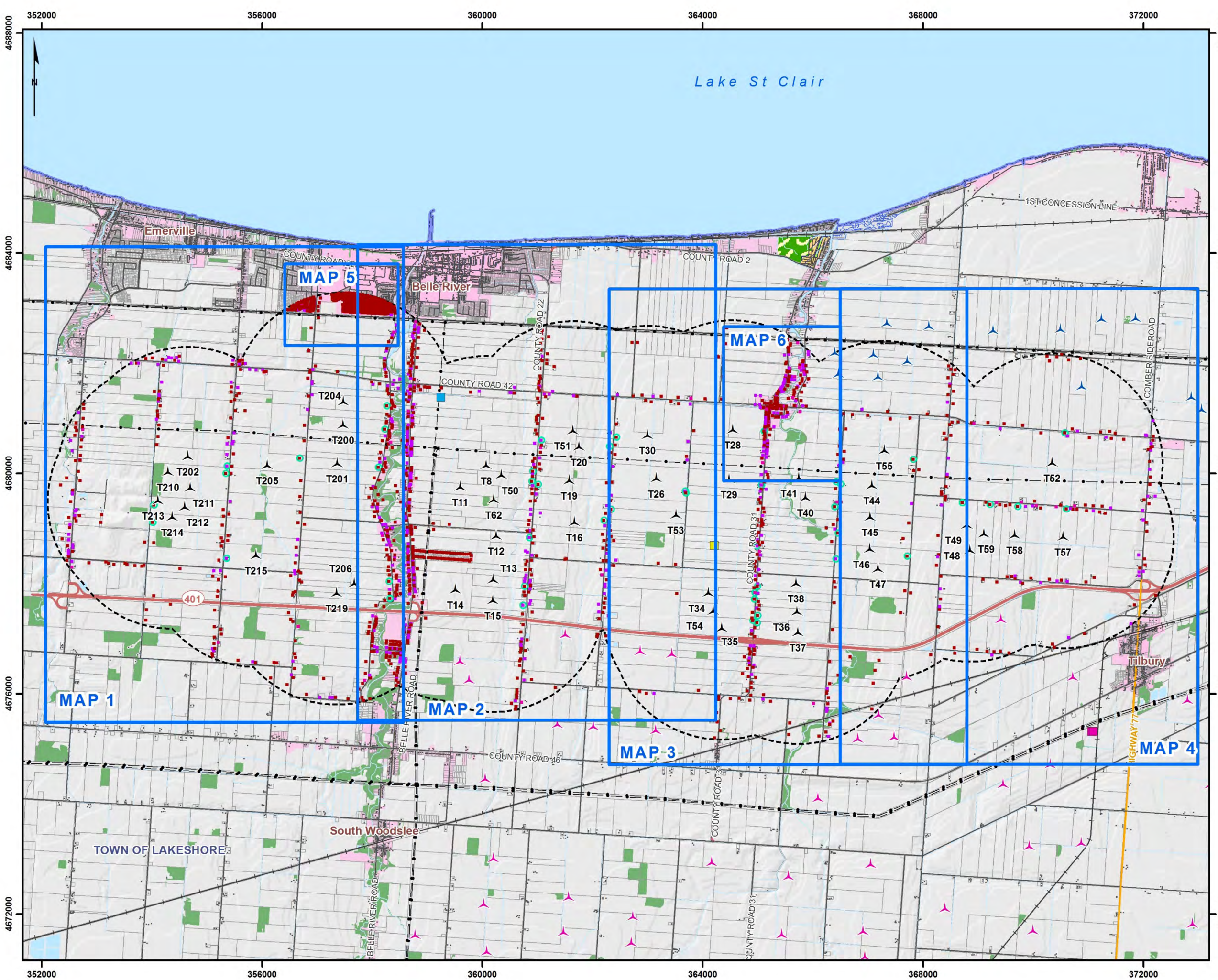


ESSEX

KINGSVILLE

LEAMINGTON

CHATHAM KENT



Legend

Wind Turbine (50)	Parcel Boundary
Belle River Transformer	Campground
Area of Investigation	Town
	Golf Course
	Mobile Home with Campground
	Wetland
	Waterbody

Other Components

- POR (1-Storey)
- POR (2-Storey)
- POR (3-Storey)
- Vacant Lot Receptor
- POR (Optional / In Progress)
- Pointe Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Pointe Aux Roches Transformer
- Other Building
- Transmission Line
- Railway
- Major Road
- Local Road
- Watercourse
- Municipal Boundary



Pattern ENERGY GROUP **SAMSUNG Renewable Energy Inc.**

Belle River

NOISE MAP EXTENTS

DNV·GL

001-800648-150525-AD
May 25, 2015
Projection: UTM Zone 17, NAD83
Sources: Geogratis, LIO



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Pointe Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Pointe Aux Roches Transformer

Predicted Sound Level at Wind Speed of 6 m/s

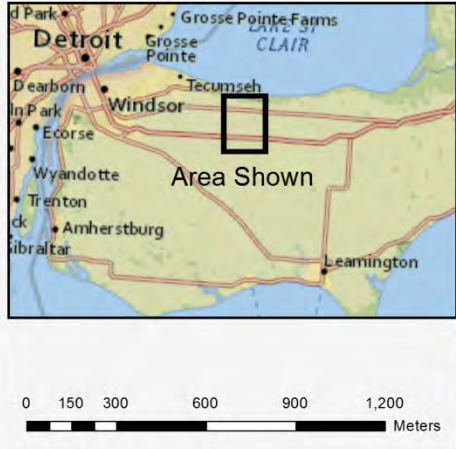
- 40 dB(A) at 1.5 m agl*
- 40 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Other Building
- Transmission Line
- Railway

- Highway
- Arterial / Collector
- Local Road / Street
- Lot
- Mobile Home with Campground
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

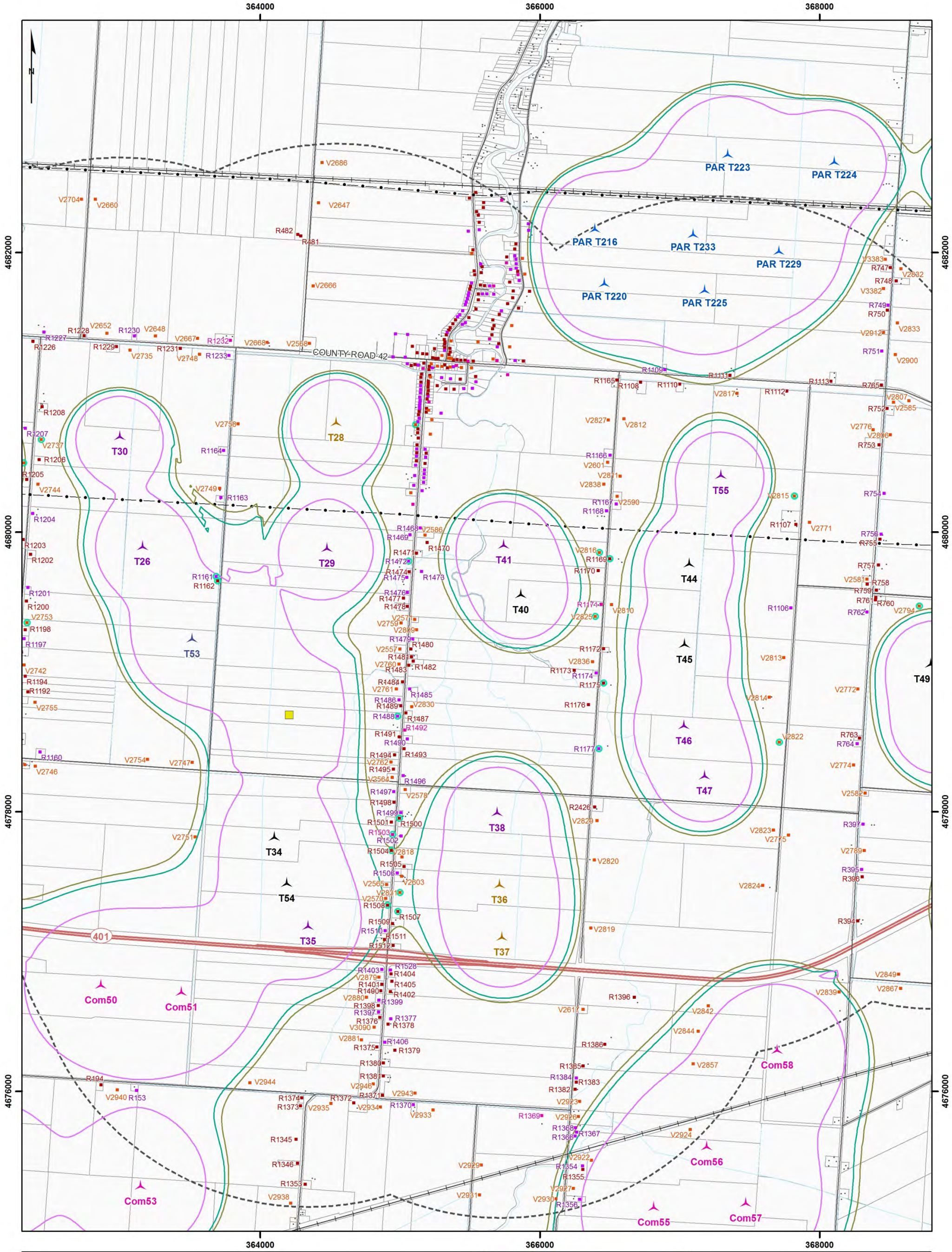
* agl : above ground level



Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 6 m/s]
MAP 1A OF 6

001-40648-150525-AD
May 25, 2015
Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Pointe Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Pointe Aux Roches Transformer

Predicted Sound Level at Wind Speed of 6 m/s

- 40 dB(A) at 1.5 m agl*
- 40 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Transmission Line
- Railway

Highway

- Highway
- Arterial / Collector
- Local Road / Street
- Lot
- Mobile Home with Campground
- Golf Course
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

* agl : above ground level

Pattern ENERGY GROUP

SAMSUNG Renewable Energy Inc

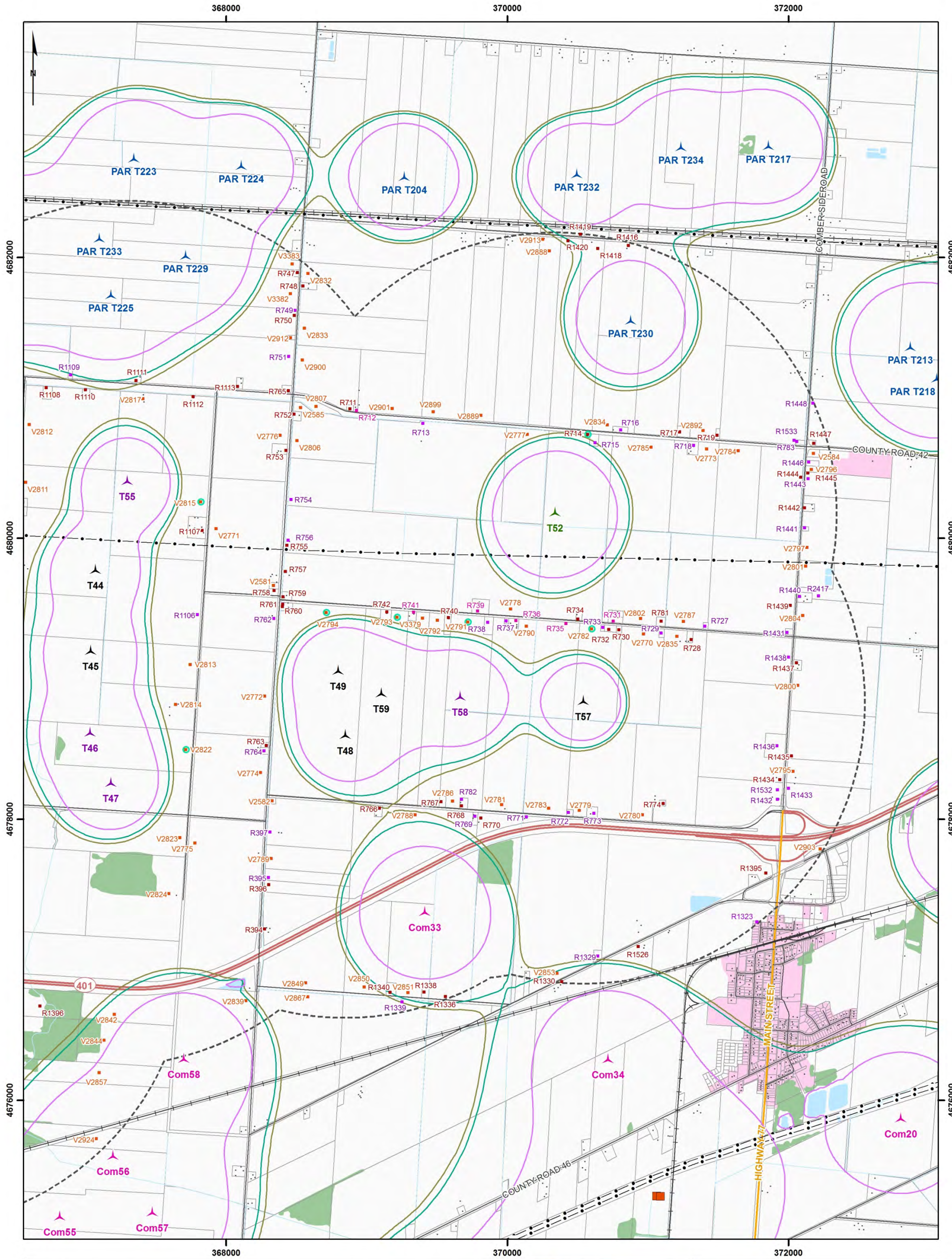
Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 6 M/S]
MAP 3A OF 6

800648-150525-001-AD
May 25, 2015

DNV-GL

Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Point Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Point Aux Roches Transformer

Predicted Sound Level at Wind Speed of 6 m/s

- 40 dB(A) at 1.5 m agl*
- 40 dB(A) at 4.5 m agl*
- 40 dB(A) at 7.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Other Building
- Transmission Line
- Railway

- Highway
- Arterial / Collector
- Local Road / Street
- Mobile Home with Campground
- Golf Course
- Built-Up Area
- Wooded Area
- Lot
- Wetland
- Waterbody

Area Shown

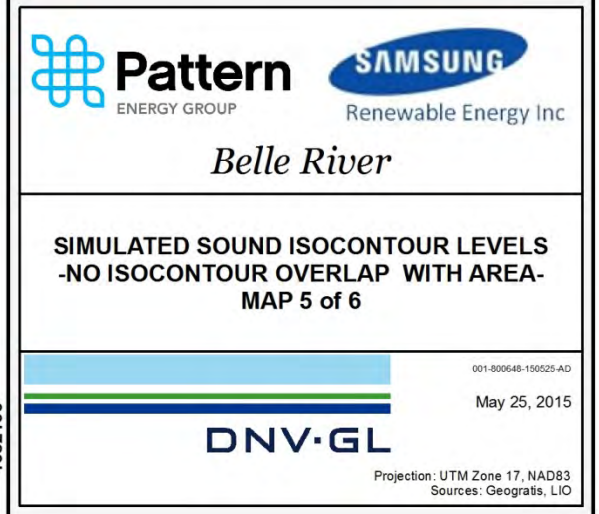
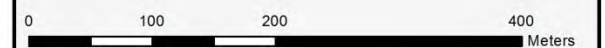
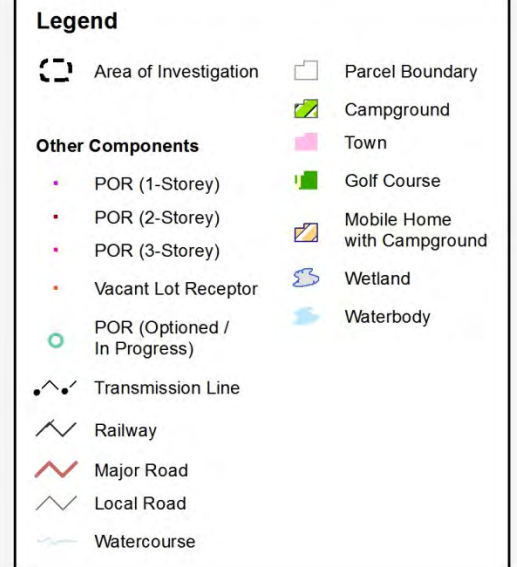
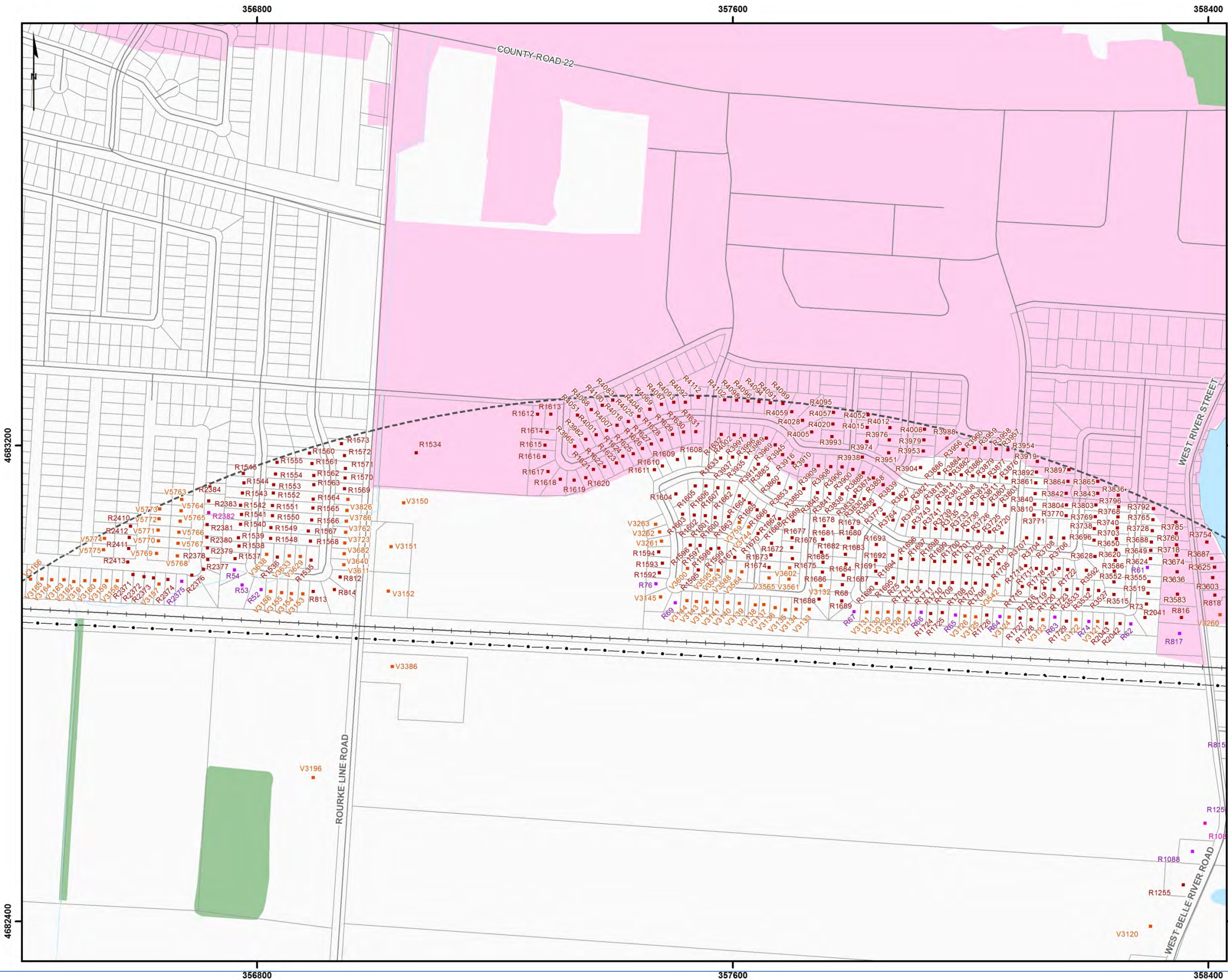
0 150 300 600 900 1,200 Meters

Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 6 m/s]
MAP 4A OF 6

800648-150225-001-AD
May 25, 2015

DNV-GL
Projection: UTM Zone 17_NAD83
Sources: LIO, Geographics





Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Point Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Point Aux Roches Transformer
- Predicted Sound Level at Wind Speed of 8 m/s
- 45 dB(A) at 1.5 m agl*
- 45 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Other Building
- Transmission Line
- Railway

- Highway
- Arterial / Collector
- Local Road / Street
- Lot
- Mobile Home / Campground
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

* agl : above ground level

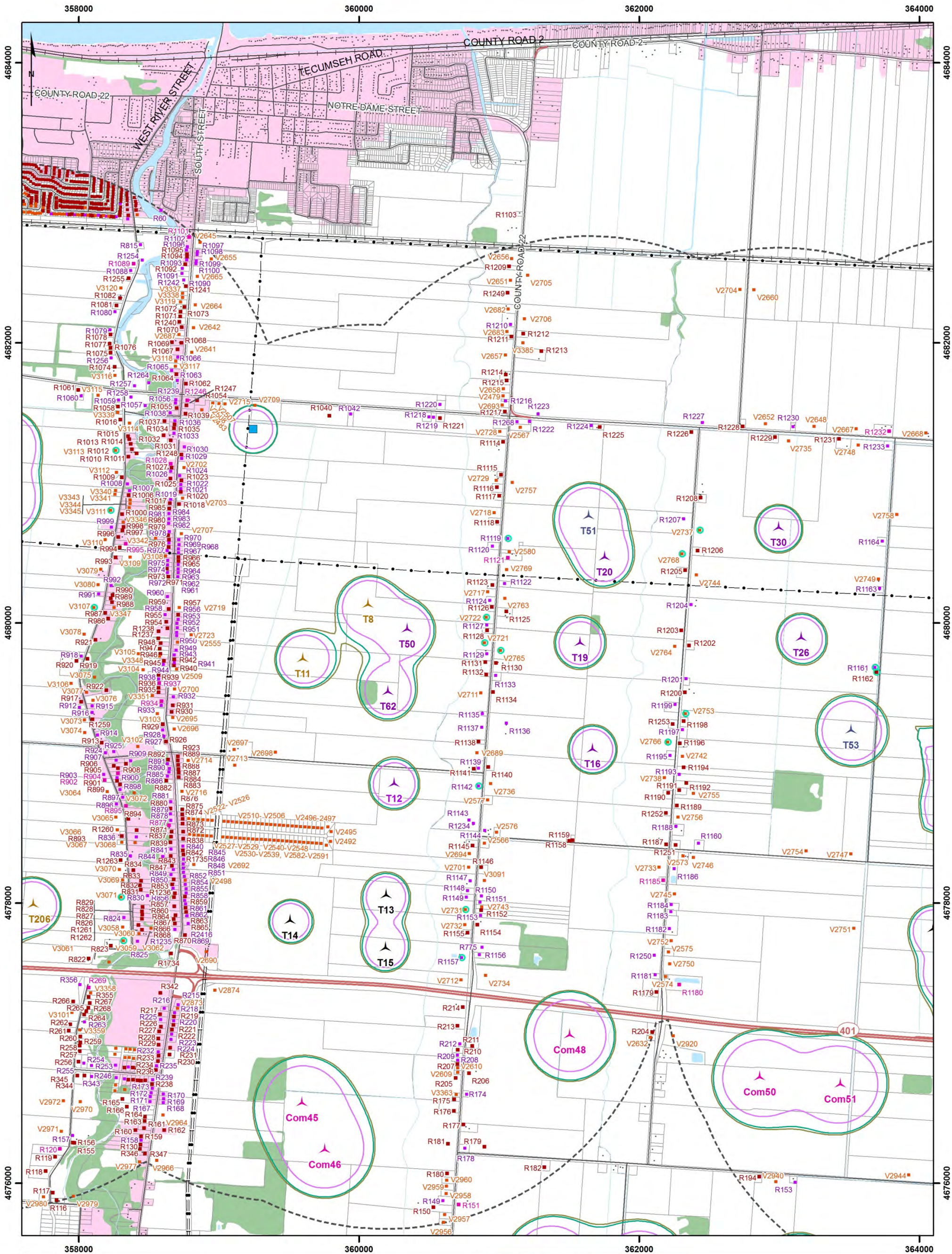


0 150 300 600 900 1,200 Meters

Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 8 m/s]
MAP 1B OF 6

Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Point Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Point Aux Roches Transformer
- Predicted Sound Level at Wind Speed of 8 m/s
- 45 dB(A) at 1.5 m agl*
- 45 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Other Building
- Transmission Line
- Railway

- Highway
- Arterial / Collector
- Local Road / Street
- Mobile Home with Campground
- Built-Up Area
- Wooded Area
- Lot
- Wetland
- Waterbody

* agl : above ground level



Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 8 m/s]
MAP 2B OF 6

800648-150525-001-AD
May 25, 2015

Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Pointe Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Pointe Aux Roches Transformer

Predicted Sound Level at Wind Speed of 8 m/s

- 45 dB(A) at 1.5 m agl*
- 45 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Transmission Line
- Railway

Infrastructure

- Highway
- Arterial / Collector
- Local Road / Street
- Lot
- Mobile Home with Campground
- Golf Course
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

* agl : above ground level

Pattern ENERGY GROUP

SAMSUNG Renewable Energy Inc

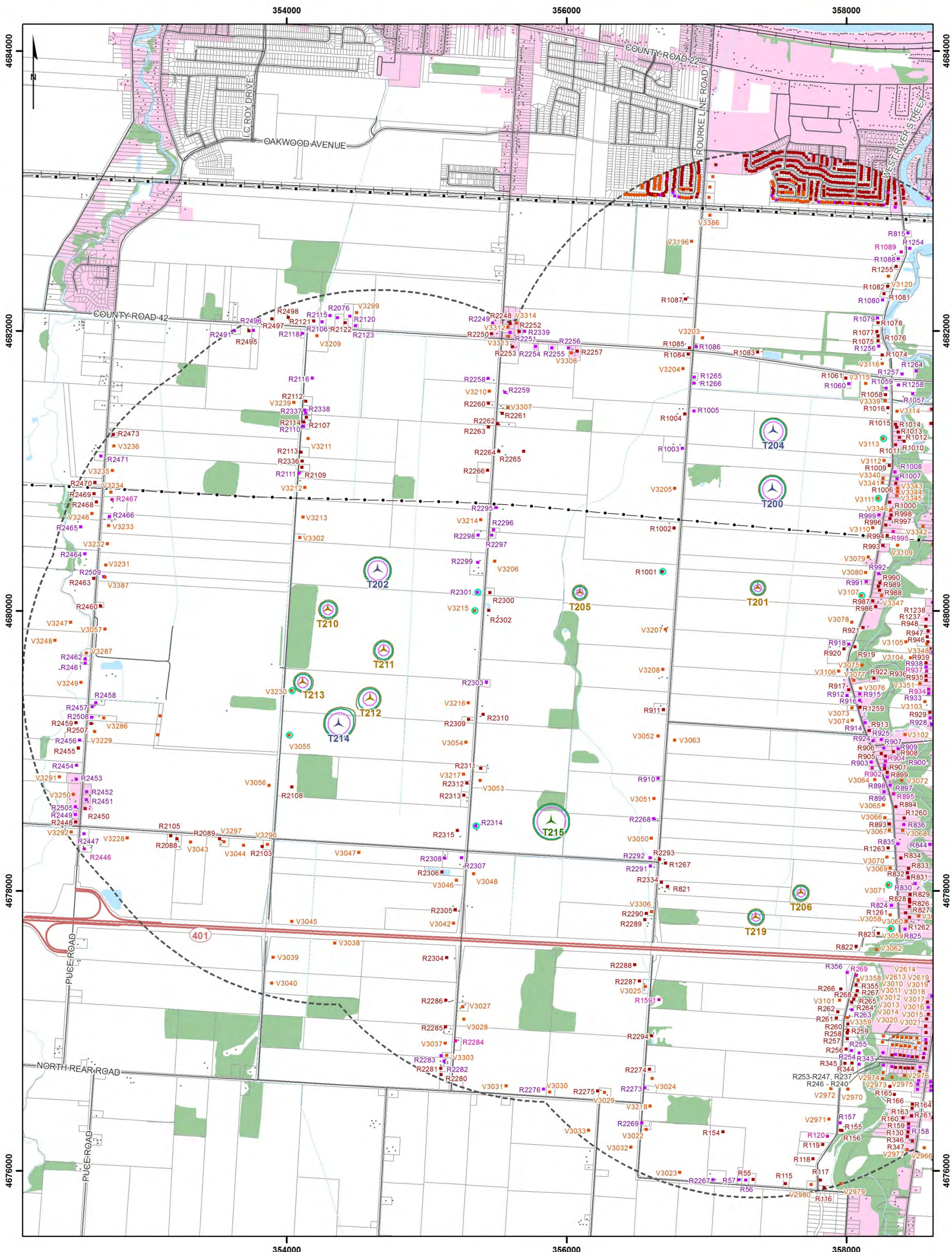
Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 8 m/s]
MAP 3B OF 6

80046-150525-001-AD
May 25, 2015

DNV-GL

Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Pointe Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Pointe Aux Roches Transformer

Predicted Sound Level at Wind Speed of 10 m/s

- 51 dB(A) at 1.5 m agl*
- 51 dB(A) at 4.5 m agl*

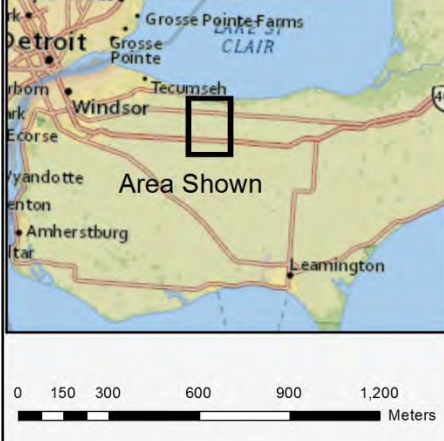
Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Other Building
- Transmission Line
- Railway

Highway

- Highway
- Arterial / Collector
- Local Road / Street
- Lot
- Mobile Home / Campground
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

* agl : above ground level



Pattern ENERGY GROUP

SAMSUNG Renewable Energy Inc.

Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 10 m/s]
MAP 1C OF 6

901-80648-150525-AD
May 25, 2015

DNV-GL

Projection: UTM Zone 17, NAD83
Sources: LIO, Geotiffs



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

- Pointe Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Pointe Aux Roches Transformer

Predicted Sound Level at Wind Speed of 10 m/s

- 51 dB(A) at 1.5 m agl*
- 51 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Other Building
- Transmission Line
- Railway

Highway

- Highway
- Arterial / Collector
- Local Road / Street

Lot

- Lot
- Mobile Home with Campground
- Golf Course
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

51 dB(A) at 7.5 m agl*

* agl : above ground level

Pattern ENERGY GROUP

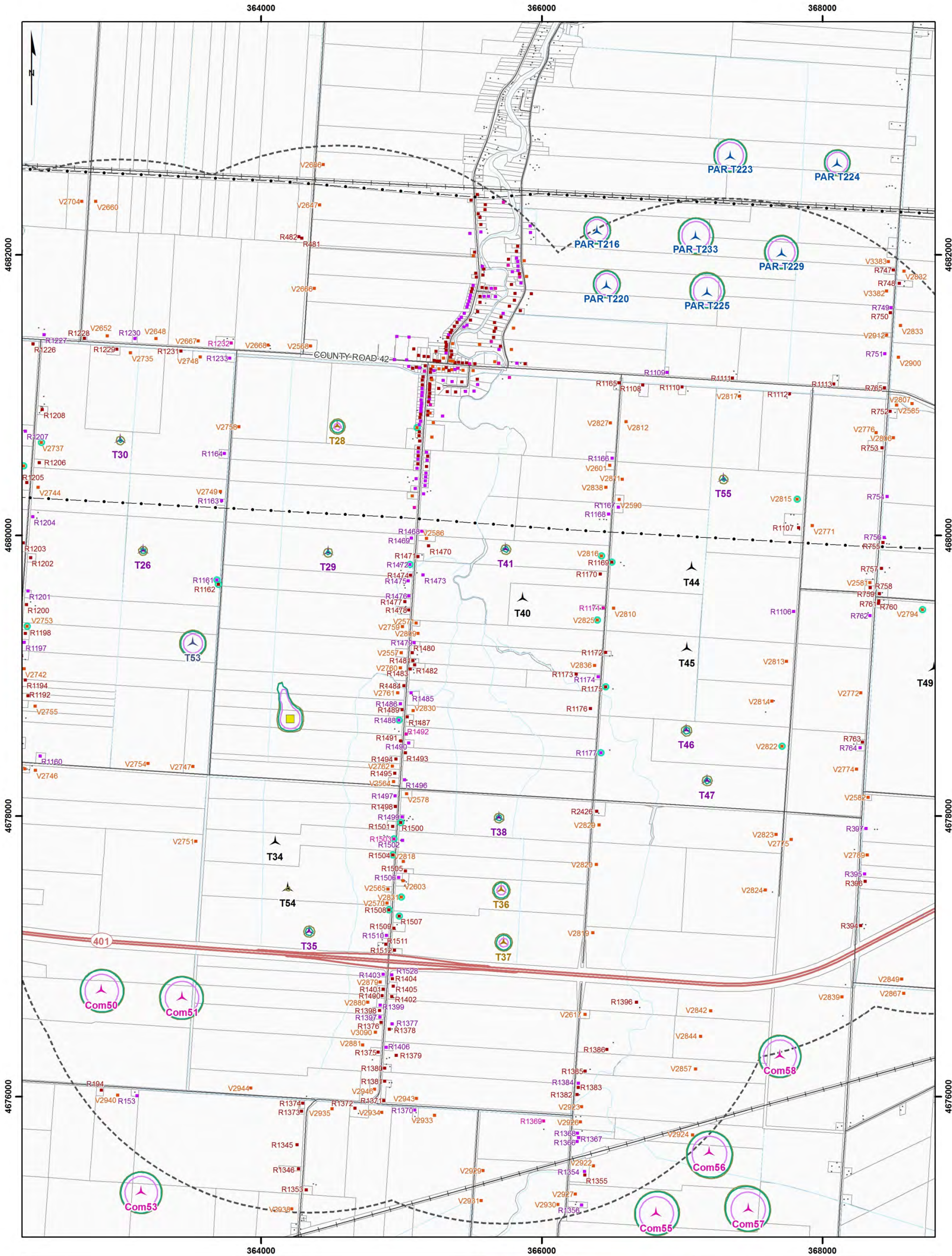
SAMSUNG Renewable Energy Inc

Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 10 m/s]
MAP 2C OF 6

800648-150525-001-AD
May 25, 2015

DNV-GL
Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis



Legend

Project Components

- SWT-3.2-113, Max. Power 2257 kW
- SWT-3.2-113, Max. Power 2370 kW
- SWT-3.2-113, Max. Power 2473 kW
- SWT-3.2-113, Max. Power 2772 kW
- SWT-3.2-113, Max. Power 3200 kW
- Belle River Transformer
- Investigation Area (2 km Buffer)

Existing Projects

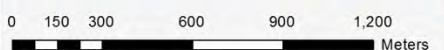
- Point Aux Roches Wind Turbine
- Comber Wind Turbine
- Comber Transformer
- Point Aux Roches Transformer
- Predicted Sound Level at Wind Speed of 10 m/s**
- 51 dB(A) at 1.5 m agl*
- 51 dB(A) at 4.5 m agl*

Other Components

- 1 Storey Receptor
- 2 Storey Receptor
- 3 Storey Receptor
- Vacant Lot Receptor
- POR on Participating Lot
- Transmission Line
- Railway

- Highway
- Arterial / Collector
- Local Road / Street
- Lot
- Mobile Home with Campground
- Golf Course
- Built-Up Area
- Wooded Area
- Wetland
- Waterbody

* agl : above ground level



Belle River

SIMULATED SOUND ISOCONTOUR LEVELS
[WIND SPEED OF 10 m/s]
MAP 3C OF 6

Projection: UTM Zone 17, NAD83
Sources: LIO, Geogratis

APPENDIX B – SAMPLE CALCULATION FOR NOISE MODELING

Resulting A-weighted sound pressure level at Receptor 1121 and VLR 2570

The calculation of cumulative receptor noise levels from wind turbines uses the methodology of ISO 9613-2, “Acoustics — Attenuation of sound during propagation outdoors: Part 2: General method of calculation”. These calculations are conducted with CadnaA (*which is an implementation of ISO 9613-1 and ISO 9613-2*).

As an example, in this appendix, the results are presented at Receptors 1121 and VLR 2570. The following inputs and conditions were used:

- Turbine locations;
- Receptor locations.

Turbine characteristics and modelling parameters:

- Hub-heights: as noted in Appendix F;
- Ambient air temperature: 10°C;
- Ambient barometric pressure: 101.32 kPa;
- Relative humidity: 70%;
- Wind speed (10 m above ground level): 6 m/s;
- Source ground factor: 0.7 (soft ground);
- Middle ground factor: 0.7; and
- Receptor ground factor: 0.7.

See Section 5 for source broadband and octave band sound power levels.

The following table presents an example result and intermediate values of the calculations as the A-weighted sound pressure levels at two chosen example receptors, due to each turbine or substation and each octave band. The A-weighted sound pressure levels at the example Receptor 1121 and VLR 2570 for all bands and all noise sources within 5000 m are 40.0 and 39.9 dBA respectively.

Sample Calculations
Sound pressure levels at Receptor 1121

Source ID	Distance* [m]	Octave band sound pressure levels [dBA]									Broad-band SPL by source [dBA]
		31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
BR_sub	3610	-13.5	5.3	10.7	11.6	14.8	5.8	-19.7	+	+	18.1
T11	1638	NA	18.4	16.8	17.3	16.5	15.2	4.5	-36.8	+	24.0
T12	1812	NA	17.3	15.5	15.0	14.0	12.5	0.7	-44.5	+	22.2
T13	2566	NA	14.0	11.7	10.0	8.4	5.5	-10.8	-73.5	+	17.8
T14	3028	NA	12.5	10.1	8.1	6.0	2.4	-16.7	+	+	16.1
T15	2925	NA	12.8	10.5	8.5	6.5	3.1	-15.4	-86.4	+	16.4
T16	1501	NA	19.0	17.2	17.0	16.3	15.3	5.4	-32.7	+	24.2
T19	804	NA	24.5	23.0	23.1	23.0	23.3	17.5	-4.5	-81.0	30.6
T20	696	NA	25.8	24.2	24.5	24.5	24.9	19.8	0.3	-67.2	32.1
T200	3617	NA	12.0	9.9	10.6	8.1	3.4	-19.2	+	+	16.6
T201	3710	NA	11.5	9.0	8.1	5.5	0.7	-22.5	+	+	15.2
T204	3680	NA	11.9	9.8	10.4	7.8	3.0	-20.0	+	+	16.4
T205	4982	NA	9.4	6.1	4.4	0.7	-6.4	-37.2	+	+	12.3
T206	4199	NA	10.6	7.8	6.6	3.6	-2.1	-28.2	+	+	14.0
T219	4565	NA	10.0	7.0	5.6	2.2	-4.1	-32.4	+	+	13.2
T26	2175	NA	15.7	13.7	13.0	11.8	9.6	-4.4	-58.0	+	20.2
T28	3495	NA	11.8	9.5	8.8	6.4	1.9	-20.0	+	+	15.8
T29	3465	NA	11.7	9.2	7.7	5.3	0.9	-20.8	+	+	15.3
T30	1946	NA	16.7	14.8	14.2	13.2	11.4	-1.2	-49.6	+	21.4
T34	4034	NA	10.5	7.4	4.7	1.8	-3.6	-28.7	+	+	13.4
T35	4647	NA	9.7	6.4	4.1	0.7	-5.8	-34.6	+	+	12.5
T40	4890	NA	9.1	5.5	2.3	-1.4	-8.3	-38.5	+	+	11.6
T41	4714	NA	9.6	6.3	4.0	0.4	-6.1	-35.3	+	+	12.4
T50	889	NA	23.6	22.0	22.2	22.0	22.1	15.8	-8.1	+	29.6
T51	654	NA	26.9	25.9	28.5	28.5	29.0	24.2	5.7	-58.3	35.3
T53	2746	NA	14.2	12.6	13.8	12.0	8.9	-8.5	-75.4	+	19.7
T54	4324	NA	10.0	6.7	3.9	0.7	-5.2	-32.1	+	+	12.7
T62	1289	NA	20.3	18.6	18.5	18.0	17.4	8.7	-24.5	+	25.8
T8	1059	NA	22.3	20.9	21.7	21.4	21.1	13.9	-14.0	+	28.6
Com45	4167	NA	2.7	8.5	10.6	10.9	3.7	-25.0	+	+	15.4
Com46	4430	NA	2.3	7.9	9.8	9.9	2.2	-28.1	+	+	14.6
Com48	3440	NA	4.1	10.3	12.9	13.8	7.9	-16.5	+	+	18.0
Com50	4126	NA	2.8	8.6	10.7	11.1	3.9	-24.6	+	+	15.6

Source ID	Distance* [m]	Octave band sound pressure levels [dBA]									Broad-band SPL by source [dBA]
		31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Com51	4450	NA	2.2	7.9	9.7	9.8	2.1	-28.3	+	+	14.5
PAR_tfer	2039	-14.2	4.8	9.2	13.3	17.3	11.0	-5.1	-57.4	+	20.0
Total A-Weighted Sound Pressure Level											40.0

* Includes the heights of noise sources and receptors.

+ indicates values below -88.0 dBA

Sound pressure levels at VLR 2570

Source ID	Distance* [m]	Octave band sound pressure levels [dBA]									Broad-band SPL by source [dBA]
		31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
BR_sub	1483	-6.0	13.0	19.2	20.7	26.2	20.6	7.3	-33.1	+	28.8
T12	4875	NA	9.4	4.3	2.6	-0.1	-7.0	-37.1	+	+	11.6
T13	4753	NA	9.4	4.1	1.7	-0.9	-7.5	-37.0	+	+	11.4
T15	4718	NA	9.5	4.2	1.9	-0.8	-7.3	-36.5	+	+	11.5
T16	3659	NA	11.4	7.1	6.2	4.5	-0.2	-23.1	+	+	14.3
T19	4143	NA	10.6	5.9	4.7	2.6	-3.0	-28.8	+	+	13.1
T20	4406	NA	10.2	5.3	3.9	1.6	-4.4	-31.8	+	+	12.6
T26	3056	NA	12.6	8.8	8.2	7.1	3.4	-15.8	+	+	16.0
T28	3417	NA	12.1	8.1	8.2	6.7	2.4	-19.0	+	+	15.5
T29	2535	NA	14.3	10.6	10.4	9.7	6.9	-9.2	-71.2	+	18.1
T30	3808	NA	11.2	6.7	5.7	3.9	-1.1	-24.9	+	+	13.9
T34	912	NA	23.2	19.8	19.8	20.5	20.6	14.2	-10.3	+	28.1
T35	599	NA	27.1	24.2	25.0	26.0	26.6	22.1	4.8	-54.5	33.2
T36	824	NA	24.5	21.6	23.2	24.0	24.2	18.3	-4.1	-82.3	30.8
T37	882	NA	23.9	20.9	22.5	23.3	23.4	17.2	-6.6	+	30.1
T38	1006	NA	22.5	19.3	20.0	20.7	20.6	13.6	-13.0	+	27.9
T40	2375	NA	14.7	10.8	9.9	9.4	6.9	-8.3	-66.5	+	18.1
T41	2661	NA	13.9	10.1	9.9	9.1	6.1	-10.8	-75.7	+	17.5
T44	3228	NA	12.0	7.8	6.4	5.1	1.1	-19.1	+	+	14.9
T45	2803	NA	13.2	9.2	8.1	7.1	3.9	-13.8	-82.0	+	16.4
T46	2463	NA	14.6	10.9	10.7	10.1	7.5	-8.2	-68.6	+	18.4
T47	2444	NA	14.6	11.0	10.8	10.2	7.6	-8.0	-67.8	+	18.5
T48	4132	NA	10.4	5.5	3.5	1.4	-4.1	-29.8	+	+	12.7
T49	4241	NA	10.2	5.3	3.2	1.0	-4.7	-31.1	+	+	12.4
T51	4696	NA	10.3	5.8	6.5	3.9	-2.6	-31.7	+	+	13.4
T53	2313	NA	15.7	12.6	14.8	14.4	12.0	-2.8	-59.7	+	21.1
T54	721	NA	25.3	22.0	22.0	22.9	23.3	18.1	-2.0	-71.5	30.5
T55	3857	NA	11.1	6.6	5.5	3.7	-1.4	-25.4	+	+	13.8
T58	4992	NA	9.3	4.0	2.3	-0.6	-7.6	-38.5	+	+	11.4
T59	4469	NA	9.9	4.7	2.5	0.2	-6.0	-33.7	+	+	12.0
Com33	4515	NA	2.2	6.1	8.6	9.6	1.8	-29.0	+	+	13.7
Com48	3410	NA	4.2	8.8	12.0	14.0	8.1	-16.1	+	+	17.6
Com49	4039	NA	3.0	7.2	10.0	11.4	4.4	-23.5	+	+	15.3
Com50	2132	NA	7.7	13.2	17.2	20.3	16.6	0.1	-56.3	+	23.7

Source ID	Distance* [m]	Octave band sound pressure levels [dBA]									Broad-band SPL by source [dBA]
		31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Com51	1612	NA	10.2	15.8	20.2	23.7	21.0	7.6	-36.9	+	27.2
Com52	3505	NA	4.0	8.5	11.7	13.6	7.5	-17.2	+	+	17.3
Com53	2709	NA	5.7	10.9	14.6	17.2	12.5	-7.5	-77.3	+	20.6
Com54	3503	NA	4.0	8.5	11.7	13.6	7.5	-17.2	+	+	17.3
Com55	2930	NA	5.2	10.2	13.8	16.1	11.1	-10.2	-85.1	+	19.6
Com56	2907	NA	5.3	10.3	13.8	16.2	11.2	-10.0	-84.3	+	19.7
Com57	3379	NA	4.3	8.9	12.1	14.1	8.3	-15.7	+	+	17.7
Com58	3006	NA	5.0	10.0	13.5	15.8	10.6	-11.2	-87.8	+	19.3
Com67	4525	NA	2.2	6.0	8.6	9.6	1.7	-29.1	+	+	13.7
Com68	4761	NA	1.8	5.5	7.9	8.7	0.5	-31.8	+	+	13.0
Com70	4981	NA	1.4	5.1	7.3	7.9	-0.7	-34.3	+	+	12.3
PAR220	4678	NA	4.7	2.3	3.4	2.6	-2.4	-31.3	+	+	9.6
PAR225	4921	-4.1	5.4	5.4	5.1	5.0	-3.0	-33.8	+	+	11.5
Total A-Weighted Sound Pressure Level											39.9

* Includes the heights of noise sources and receptors.

+ indicates values below -88.0 dBA

APPENDIX C – COORDINATES OF POINTS OF RECEPTION

Coordinates of all modeled Points of Reception and Vacant Lot Receptors for the Project (UTM17-NAD83 projection) are given in the table below:

Receptor ID	Easting	Northing
R174	360772	4676636
R175	360682	4676598
R176	360680	4676517
R177	360747	4676418
R181	360638	4676281
R205	360692	4676751
R206	360788	4676785
R207	360706	4676850
R208	360707	4676877
R209	360706	4676914
R210	360707	4676951
R211	360812	4676981
R212	360721	4676995
R213	360706	4677124
R214	360743	4677257
R215	358711	4677274
R216	358611	4677248
R217	358582	4677205
R218	358685	4677217
R219	358682	4677190
R220	358680	4677159
R221	358678	4677130
R222	358668	4677096
R223	358664	4677064
R224	358661	4677026
R225	358587	4677167
R226	358589	4677118
R227	358576	4677084
R228	358571	4677033
R229	358572	4676988
R230	358651	4676919
R231	358654	4676966
R232	358570	4676937
R233	358571	4676911
R234	358567	4676872
R235	358557	4676837
R236	358553	4676808

Receptor ID	Easting	Northing
R237	358507	4676814
R239	358529	4676739
R240	358477	4676733
R241	358447	4676733
R242	358422	4676733
R243	358390	4676738
R244	358355	4676738
R245	358328	4676744
R246	358268	4676754
R247	358475	4676814
R248	358444	4676818
R249	358415	4676823
R250	358389	4676826
R251	358355	4676830
R252	358328	4676826
R253	358264	4676843
R254	358093	4676840
R255	358039	4676858
R256	358000	4676868
R257	358009	4676942
R258	358009	4676982
R259	358013	4677005
R260	358012	4677048
R261	357931	4677091
R262	357941	4677135
R263	358042	4677151
R264	358041	4677203
R265	358056	4677227
R266	357962	4677298
R267	358070	4677254
R268	358081	4677286
R269	358072	4677396
R270	365267	4681046
R271	365298	4681105
R272	365327	4681024
R273	365386	4681022
R274	365363	4681097

Receptor ID	Easting	Northing
R275	365431	4681094
R276	365457	4681025
R277	365517	4681028
R278	365544	4681074
R279	365541	4681112
R280	365382	4681183
R281	365405	4681191
R282	365341	4681173
R283	365320	4681196
R284	365233	4681175
R285	365236	4681246
R286	365248	4681311
R287	365255	4681241
R288	365273	4681241
R342	358584	4677358
R343	358094	4676761
R344	358042	4676769
R345	357992	4676767
R355	358073	4677329
R356	358010	4677418
R394	368275	4677219
R395	368301	4677586
R396	368305	4677534
R397	368311	4677910
R398	365320	4681299
R399	365320	4681320
R400	365320	4681344
R401	365322	4681357
R402	365318	4681377
R403	365333	4681411
R404	365339	4681430
R405	365351	4681445
R406	365360	4681462
R407	365357	4681314
R408	365359	4681288
R409	365350	4681269
R410	365384	4681230

Receptor ID	Easting	Northing
R411	365409	4681233
R412	365435	4681229
R413	365465	4681229
R414	365486	4681222
R415	365770	4681124
R416	365663	4681454
R417	365658	4681411
R418	365640	4681381
R419	365707	4681348
R420	365693	4681228
R421	365823	4681228
R422	365524	4681222
R440	365770	4681634
R442	365726	4681582
R443	365711	4681557
R444	365672	4681478
R445	365468	4681497
R446	365494	4681534
R447	365544	4681595
R448	365378	4681490
R449	365398	4681517
R450	365413	4681539
R451	365427	4681554
R452	365449	4681583
R453	365467	4681626
R454	365474	4681646
R455	365482	4681669
R456	365490	4681693
R457	365499	4681737
R458	365506	4681759
R459	365512	4681781
R460	365561	4681661
R461	365671	4681701
R462	365622	4681704
R463	365590	4681702
R464	365560	4681702
R465	365574	4681767
R466	365605	4681763
R467	365640	4681759
R468	365671	4681761
R469	365535	4681841
R470	365582	4681856
R471	365532	4681869

Receptor ID	Easting	Northing
R481	364290	4682118
R482	364270	4682128
R713	369401	4680817
R715	370625	4680680
R716	370808	4680770
R717	371228	4680756
R718	371327	4680661
R719	371494	4680733
R727	371407	4679375
R728	371310	4679278
R729	371095	4679325
R730	370794	4679349
R731	370756	4679410
R732	370724	4679352
R733	370682	4679366
R734	370503	4679426
R735	370419	4679394
R736	370062	4679414
R737	369992	4679411
R738	369862	4679402
R739	369791	4679483
R740	369582	4679435
R741	369336	4679474
R742	369144	4679476
R751	368446	4681295
R752	368484	4680884
R753	368427	4680625
R754	368462	4680277
R755	368434	4679949
R756	368442	4679985
R757	368422	4679763
R758	368342	4679627
R759	368407	4679584
R760	368402	4679532
R761	368402	4679514
R762	368339	4679428
R763	368287	4678526
R764	368270	4678487
R765	368443	4681051
R766	369092	4678079
R767	369529	4678124
R768	369675	4678096
R769	369771	4678022

Receptor ID	Easting	Northing
R770	369812	4678009
R771	370138	4678016
R772	370436	4678048
R773	370618	4678042
R774	371110	4678112
R775	360862	4677632
R776	365881	4681223
R781	371096	4679410
R782	369675	4678141
R784	365696	4681324
R785	365664	4681516
R794	365447	4681484
R795	365492	4681713
R821	356725	4678030
R822	358073	4677604
R823	358231	4677696
R824	358323	4677896
R825	358421	4677726
R826	358453	4677888
R827	358456	4677918
R828	358454	4677940
R829	358458	4677973
R830	358493	4678052
R831	358445	4678095
R832	358439	4678128
R833	358447	4678159
R834	358392	4678234
R835	358371	4678336
R836	358412	4678472
R837	358660	4678475
R838	358747	4678459
R839	358657	4678434
R840	358744	4678405
R841	358660	4678385
R842	358745	4678377
R843	358659	4678337
R844	358600	4678332
R845	358749	4678313
R846	358748	4678279
R847	358667	4678267
R848	358748	4678250
R849	358677	4678238
R850	358661	4678203

Receptor ID	Easting	Northing
R851	358749	4678220
R852	358757	4678191
R853	358679	4678170
R854	358762	4678134
R855	358769	4678102
R856	358676	4678105
R857	358687	4678070
R858	358768	4678072
R859	358761	4678046
R860	358682	4678041
R861	358758	4678018
R862	358764	4677994
R863	358765	4677967
R864	358685	4677976
R865	358769	4677936
R866	358679	4677886
R867	358693	4677914
R868	358689	4677853
R869	358784	4677855
R870	358759	4677771
R871	358665	4678509
R872	358748	4678510
R873	358743	4678567
R874	358743	4678600
R875	358740	4678632
R876	358740	4678669
R877	358645	4678554
R878	358659	4678590
R879	358655	4678637
R880	358657	4678674
R881	358659	4678725
R882	358627	4678873
R883	358715	4678900
R884	358716	4678931
R885	358645	4678936
R886	358636	4678905
R887	358714	4678957
R888	358712	4678987
R889	358708	4679018
R890	358650	4678961
R891	358636	4678994
R892	358640	4679024
R893	358309	4678479

Receptor ID	Easting	Northing
R894	358356	4678600
R895	358339	4678694
R896	358270	4678706
R897	358316	4678756
R898	358296	4678811
R899	358296	4678846
R900	358276	4678896
R901	358276	4678874
R902	358187	4678877
R903	358180	4678919
R904	358281	4678926
R905	358282	4678962
R906	358252	4678981
R907	358270	4679020
R908	358340	4678995
R909	358372	4679016
R910	356655	4678803
R911	356694	4679295
R912	358007	4679396
R913	358165	4679145
R914	358136	4679201
R915	358098	4679408
R916	358098	4679361
R917	358020	4679436
R918	358018	4679763
R919	358064	4679743
R920	357985	4679729
R921	358121	4679880
R922	358200	4679520
R923	358709	4679047
R924	358194	4679073
R925	358252	4679082
R926	358625	4679153
R927	358609	4679191
R928	358601	4679235
R929	358600	4679276
R930	358665	4679366
R931	358673	4679413
R932	358677	4679473
R933	358591	4679411
R934	358592	4679442
R935	358572	4679505
R936	358572	4679537

Receptor ID	Easting	Northing
R937	358576	4679570
R938	358572	4679600
R939	358572	4679629
R940	358681	4679698
R941	358685	4679717
R942	358685	4679740
R943	358683	4679772
R944	358606	4679704
R945	358610	4679729
R946	358584	4679780
R947	358580	4679816
R948	358587	4679855
R949	358696	4679805
R950	358702	4679909
R951	358702	4679932
R952	358704	4679967
R953	358703	4679999
R954	358634	4679963
R955	358626	4680008
R956	358712	4680026
R957	358712	4680059
R958	358618	4680060
R959	358644	4680099
R960	358636	4680188
R961	358710	4680331
R962	358711	4680360
R963	358712	4680386
R964	358712	4680417
R965	358714	4680443
R966	358714	4680471
R967	358714	4680501
R968	358714	4680530
R969	358718	4680558
R970	358716	4680594
R971	358642	4680331
R972	358636	4680360
R973	358630	4680387
R974	358635	4680416
R975	358637	4680446
R976	358644	4680542
R977	358634	4680517
R978	358645	4680571
R979	358645	4680595

Receptor ID	Easting	Northing
R980	358639	4680626
R981	358648	4680653
R982	358644	4680712
R983	358646	4680742
R984	358646	4680781
R985	358649	4680818
R986	358212	4680032
R987	358190	4680072
R988	358239	4680147
R989	358231	4680176
R990	358243	4680200
R991	358144	4680208
R992	358233	4680266
R993	358264	4680467
R994	358294	4680540
R995	358337	4680566
R996	358283	4680613
R997	358314	4680661
R998	358323	4680687
R999	358236	4680685
R1000	358312	4680776
R1002	356771	4680592
R1003	356830	4681162
R1004	356846	4681408
R1005	356913	4681429
R1006	358357	4680911
R1007	358364	4680945
R1008	358349	4680993
R1009	358309	4681040
R1010	358415	4681212
R1011	358355	4681187
R1012	358382	4681241
R1013	358372	4681279
R1014	358363	4681312
R1015	358354	4681334
R1016	358299	4681452
R1017	358652	4680854
R1018	358717	4680848
R1019	358659	4680882
R1020	358729	4680935
R1021	358729	4680960
R1022	358729	4680989
R1023	358735	4681017

Receptor ID	Easting	Northing
R1024	358723	4681052
R1025	358657	4681031
R1026	358659	4681085
R1027	358664	4681109
R1028	358659	4681136
R1029	358737	4681174
R1030	358756	4681257
R1031	358659	4681304
R1032	358607	4681340
R1033	358681	4681355
R1034	358683	4681391
R1035	358685	4681417
R1036	358687	4681444
R1037	358613	4681441
R1038	358654	4681501
R1039	358765	4681493
R1040	359791	4681481
R1042	359944	4681492
R1043	365131	4681193
R1044	365109	4681197
R1045	365081	4681192
R1046	364967	4681418
R1047	365056	4681413
R1048	365037	4681250
R1049	364951	4681253
R1050	365089	4681328
R1051	365123	4681282
R1052	365163	4681275
R1053	365193	4681274
R1054	358848	4681590
R1055	358702	4681534
R1056	358692	4681571
R1057	358477	4681552
R1058	358282	4681545
R1059	358286	4681592
R1060	358019	4681622
R1061	357997	4681664
R1062	358766	4681708
R1063	358704	4681732
R1064	358699	4681775
R1065	358664	4681804
R1066	358708	4681900
R1067	358708	4681953

Receptor ID	Easting	Northing
R1068	358735	4682001
R1069	358667	4682005
R1074	358258	4681830
R1075	358229	4681930
R1076	358228	4681965
R1077	358222	4681995
R1078	358228	4682059
R1079	358225	4682093
R1080	358261	4682223
R1081	358271	4682268
R1082	358296	4682319
R1083	357368	4681850
R1084	356872	4681836
R1085	356880	4681880
R1086	356929	4681889
R1087	356853	4682228
R1106	367796	4679457
R1107	367831	4680055
R1108	366720	4681072
R1109	366894	4681162
R1110	366999	4681057
R1111	367361	4681122
R1112	367767	4681008
R1113	368082	4681079
R1114	361032	4681293
R1115	361017	4681058
R1116	360986	4680969
R1117	361003	4680908
R1118	360989	4680721
R1120	360954	4680548
R1121	361065	4680466
R1122	361042	4680283
R1123	360955	4680271
R1124	360936	4680162
R1125	361054	4680082
R1126	360951	4680115
R1127	360914	4679985
R1128	360916	4679948
R1129	360916	4679779
R1130	360981	4679713
R1131	360905	4679720
R1132	360911	4679632
R1133	360979	4679626

Receptor ID	Easting	Northing
R1134	360959	4679507
R1135	360883	4679352
R1136	361055	4679284
R1137	360878	4679255
R1138	360856	4679153
R1139	360856	4678963
R1140	360926	4678972
R1141	360822	4678959
R1143	360819	4678570
R1144	360901	4678518
R1145	360813	4678411
R1146	360874	4678256
R1147	360797	4678158
R1148	360778	4678088
R1149	360769	4678042
R1150	360877	4678051
R1151	360866	4678006
R1152	360874	4677949
R1153	360871	4677910
R1154	360846	4677846
R1155	360777	4677789
R1156	360880	4677684
R1158	361503	4678444
R1159	361527	4678449
R1160	362425	4678427
R1163	363720	4680248
R1164	363738	4680584
R1165	366550	4681087
R1166	366503	4680550
R1167	366547	4680200
R1168	366478	4680151
R1170	366418	4679724
R1171	366438	4679483
R1172	366455	4679165
R1173	366246	4679012
R1174	366403	4678993
R1176	366348	4678766
R1178	365052	4681203
R1182	362219	4677819
R1183	362229	4677939
R1184	362231	4677990
R1185	362175	4678162
R1186	362253	4678246

Receptor ID	Easting	Northing
R1187	362195	4678419
R1188	362265	4678547
R1189	362271	4678696
R1190	362211	4678787
R1191	362288	4678806
R1192	362340	4678856
R1193	362289	4678918
R1194	362321	4678969
R1195	362224	4679053
R1196	362293	4679142
R1197	362312	4679238
R1198	362320	4679300
R1199	362260	4679417
R1200	362329	4679506
R1201	362338	4679603
R1202	362358	4679840
R1203	362304	4679947
R1204	362373	4680132
R1205	362331	4680376
R1206	362419	4680517
R1207	362321	4680743
R1208	362441	4680896
R1210	361085	4682131
R1211	361091	4682045
R1212	361176	4682065
R1213	361303	4681942
R1214	361050	4681773
R1215	361057	4681732
R1216	361048	4681584
R1217	361043	4681509
R1218	360502	4681470
R1219	360535	4681468
R1220	360581	4681561
R1221	360580	4681463
R1222	361220	4681438
R1223	361280	4681493
R1224	361660	4681410
R1225	361721	4681399
R1226	362375	4681364
R1227	362454	4681430
R1228	362741	4681404
R1229	362972	4681327
R1230	363101	4681402

Receptor ID	Easting	Northing
R1231	363429	4681314
R1232	363787	4681370
R1233	363776	4681264
R1234	360788	4678591
R1235	358687	4677812
R1236	358668	4678133
R1237	358569	4679890
R1238	358572	4679941
R1239	358695	4681595
R1246	358776	4681589
R1247	358770	4681554
R1248	358735	4681201
R1251	362263	4678414
R1252	362193	4678644
R1253	362242	4679277
R1255	358358	4682461
R1256	358233	4681892
R1257	358400	4681693
R1258	358375	4681614
R1259	358099	4679312
R1260	358414	4678520
R1261	358427	4677843
R1262	358454	4677810
R1263	358301	4678306
R1264	358503	4681714
R1265	356914	4681669
R1266	356913	4681627
R1267	356709	4678198
R1268	361130	4681438
R1269	365168	4680354
R1270	365171	4680389
R1271	365173	4680415
R1272	365176	4680444
R1273	365180	4680491
R1274	365184	4680534
R1275	365120	4680567
R1276	365188	4680563
R1277	365179	4680591
R1278	365121	4680594
R1279	365131	4680672
R1280	365126	4680710
R1281	365130	4680738
R1282	365130	4680790

Receptor ID	Easting	Northing
R1283	365136	4680815
R1284	365132	4680840
R1285	365118	4680543
R1286	365140	4680882
R1287	365188	4680858
R1288	365191	4680885
R1289	365142	4680919
R1290	365207	4680930
R1291	365195	4680951
R1292	365201	4680974
R1293	365199	4680987
R1294	365203	4681012
R1295	365200	4681036
R1296	365204	4681058
R1297	365204	4681078
R1298	365214	4681120
R1299	365122	4680623
R1300	365294	4680851
R1301	365136	4680862
R1302	365139	4680902
R1303	365143	4680942
R1304	365142	4680964
R1305	365146	4680996
R1306	365147	4681019
R1307	365148	4681048
R1308	365151	4681107
R1309	365151	4681071
R1310	365155	4681130
R1311	365158	4680297
R1312	365207	4681161
R1313	365210	4681185
R1314	365171	4681208
R1315	365166	4681171
R1367	366264	4675706
R1368	366255	4675739
R1369	366014	4675825
R1370	365095	4675903
R1371	364875	4675971
R1372	364669	4675916
R1373	364289	4675895
R1374	364298	4675953
R1375	364834	4676315
R1376	364855	4676528

Receptor ID	Easting	Northing
R1377	364933	4676518
R1378	364915	4676480
R1379	364964	4676292
R1380	364881	4676202
R1381	364881	4676109
R1382	366252	4676015
R1383	366261	4676064
R1384	366262	4676094
R1385	366309	4676182
R1386	366464	4676336
R1396	366676	4676672
R1397	364847	4676567
R1398	364845	4676612
R1399	364850	4676650
R1400	364862	4676719
R1401	364870	4676765
R1402	364932	4676712
R1403	364870	4676871
R1404	364935	4676839
R1405	364942	4676787
R1406	364892	4676351
R1409	365106	4680403
R1410	365111	4680477
R1411	365118	4680509
R1436	371920	4678524
R1438	372002	4679154
R1466	365100	4680333
R1467	365094	4680198
R1468	365145	4680029
R1469	365072	4679980
R1470	365194	4679925
R1471	365119	4679850
R1473	365155	4679717
R1474	365066	4679715
R1475	365048	4679676
R1476	365054	4679567
R1477	365025	4679526
R1478	365053	4679468
R1479	365092	4679236
R1480	365077	4679164
R1481	365082	4679109
R1482	365096	4679077
R1483	365062	4679047

Receptor ID	Easting	Northing
R1484	365018	4678929
R1485	365069	4678878
R1486	364993	4678799
R1487	365042	4678706
R1489	365007	4678756
R1490	365053	4678520
R1491	364995	4678534
R1492	365033	4678584
R1493	365029	4678450
R1494	364962	4678406
R1495	364954	4678304
R1496	365022	4678258
R1497	364955	4678143
R1498	364958	4678066
R1499	365005	4677994
R1501	364939	4677925
R1502	365007	4677826
R1505	365030	4677609
R1506	364981	4677562
R1509	364947	4677199
R1510	364893	4677149
R1511	364889	4677085
R1512	364950	4677042
R1528	364933	4676866
R1591	356663	4677222
R1734	358660	4677640
R1735	358749	4678346
R2088	353217	4678372
R2089	353521	4678371
R2103	353825	4678317
R2105	353172	4678392
R2107	354140	4681383
R2108	354037	4678743
R2109	354109	4681026
R2110	354120	4681319
R2111	354089	4680984
R2112	354137	4681497
R2113	354102	4681133
R2114	354121	4681350
R2116	354183	4681663
R2260	355443	4681483
R2261	355542	4681411
R2262	355510	4681338

Receptor ID	Easting	Northing
R2263	355442	4681314
R2264	355517	4681140
R2265	355696	4681140
R2266	355438	4681006
R2268	356624	4678515
R2273	356562	4676591
R2274	356594	4676724
R2286	355138	4677218
R2287	356523	4677356
R2288	356489	4677473
R2289	356561	4677793
R2290	356572	4677837
R2291	356600	4678178
R2292	356600	4678237
R2293	356668	4678226
R2294	356609	4676964
R2295	355495	4680738
R2296	355480	4680581
R2297	355467	4680541
R2298	355368	4680541
R2299	355367	4680346
R2300	355453	4680131
R2302	355445	4680003
R2303	355428	4679492
R2304	355145	4677523
R2305	355206	4677865
R2306	355110	4678134
R2307	355251	4678236
R2308	355129	4678235
R2309	355302	4679225
R2310	355405	4679261
R2311	355387	4678875
R2312	355289	4678769
R2313	355267	4678683
R2315	355221	4678430
R2334	356680	4678061
R2336	354112	4681071
R2337	354131	4681434
R2338	354136	4681414
R2416	358775	4677910
R2426	366393	4678033
R2458	352635	4679343
V2479	361031	4681622

Receptor ID	Easting	Northing
V2480	365300	4681264
V2481	365300	4681264
V2482	359518	4678440
V2483	358881	4681521
V2484	359548	4678437
V2485	359579	4678435
V2486	359609	4678433
V2487	359640	4678431
V2488	359670	4678429
V2489	359700	4678427
V2490	359731	4678425
V2491	359770	4678412
V2492	359799	4678441
V2495	359805	4678511
V2496	359780	4678544
V2497	359739	4678536
V2498	358762	4678163
V2499	359222	4678572
V2500	359191	4678574
V2501	359161	4678576
V2502	359131	4678578
V2503	359100	4678580
V2504	359070	4678582
V2505	359039	4678584
V2506	358956	4678590
V2509	358700	4679670
V2510	359708	4678538
V2511	359678	4678540
V2512	359647	4678542
V2513	359617	4678544
V2514	359587	4678546
V2515	359556	4678549
V2516	359526	4678551
V2517	359495	4678553
V2518	359465	4678555
V2519	359435	4678557
V2520	359404	4678559
V2521	359374	4678561
V2522	358922	4678592
V2523	358889	4678594
V2524	358855	4678597
V2525	358822	4678599
V2526	358787	4678604

Receptor ID	Easting	Northing
V2527	358793	4678491
V2528	358826	4678486
V2529	358857	4678484
V2530	359214	4678460
V2531	359244	4678458
V2532	359275	4678456
V2533	359305	4678454
V2534	359336	4678452
V2535	359366	4678450
V2536	359396	4678448
V2537	359427	4678446
V2538	359457	4678444
V2539	359488	4678442
V2540	358887	4678482
V2541	358917	4678480
V2542	358948	4678478
V2543	359032	4678472
V2544	359062	4678470
V2545	359092	4678468
V2546	359123	4678466
V2547	359153	4678464
V2548	359184	4678462
V2551	359343	4678563
V2552	359313	4678565
V2553	359283	4678567
V2554	359252	4678569
V2555	358706	4679863
V2556	365079	4680280
V2557	365001	4679163
V2558	365219	4681109
V2560	365204	4680872
V2562	365225	4681205
V2564	364944	4678245
V2565	364905	4677478
V2566	360899	4678426
V2567	361153	4681396
V2568	364351	4681350
V2570	364899	4677379
V2571	365106	4679374
V2573	362316	4678336
V2576	360986	4678506
V2577	360922	4678737
V2578	365037	4678157

Receptor ID	Easting	Northing
V2580	361076	4680509
V2581	368339	4679663
V2582	368327	4678133
V2585	368531	4680929
V2586	365180	4679979
V2587	365666	4681237
V2588	365440	4681175
V2589	365559	4681359
V2590	366553	4680256
V2591	365512	4681174
V2592	365269	4681186
V2593	365300	4681184
V2594	365360	4681180
V2595	365347	4681245
V2599	365366	4681366
V2600	365368	4681243
V2601	366486	4680499
V2603	365013	4677537
V2609	360706	4676792
V2610	360708	4676822
V2613	358506	4676948
V2614	358522	4676912
V2617	366309	4676586
V2619	358496	4676880
V2641	358809	4681933
V2648	363252	4681403
V2652	362905	4681422
V2657	361047	4681912
V2658	361033	4681672
V2666	364379	4681759
V2667	363553	4681386
V2668	364050	4681357
V2683	361059	4682081
V2687	358718	4682059
V2689	360844	4679072
V2690	358912	4677654
V2692	358824	4678274
V2693	361026	4681556
V2694	360791	4678354
V2695	358674	4679324
V2696	358685	4679242
V2697	359111	4679097
V2698	359407	4679078

Receptor ID	Easting	Northing
V2700	358686	4679527
V2701	360785	4678256
V2702	358753	4681109
V2703	358743	4680892
V2706	361185	4682172
V2707	358735	4680638
V2711	360873	4679501
V2712	360731	4677452
V2713	359116	4678984
V2714	358784	4679019
V2716	358740	4678797
V2717	360922	4680221
V2718	360967	4680787
V2719	358720	4680109
V2723	358805	4679915
V2728	361007	4681367
V2729	360983	4681019
V2732	360759	4677845
V2733	362145	4678256
V2734	360907	4677482
V2735	363070	4681301
V2736	360942	4678853
V2738	362182	4678896
V2742	362311	4679048
V2743	360878	4677973
V2744	362411	4680343
V2745	362255	4678065
V2746	362391	4678326
V2747	363514	4678352
V2748	363567	4681271
V2749	363711	4680313
V2751	363535	4677819
V2752	362232	4677730
V2754	363194	4678373
V2755	362390	4678783
V2756	362280	4678613
V2757	361097	4681003
V2758	363841	4680774
V2759	365008	4679349
V2760	364993	4679056
V2761	364974	4678877
V2762	364936	4678355
V2763	361043	4680176

Receptor ID	Easting	Northing
V2764	362256	4679832
V2769	361058	4680381
V2770	370971	4679320
V2771	367929	4680069
V2772	368274	4678877
V2773	371419	4680637
V2774	368245	4678333
V2775	367779	4677831
V2776	368385	4680732
V2777	370144	4680740
V2778	370025	4679497
V2779	370514	4678064
V2780	370962	4678032
V2781	369961	4678104
V2783	370296	4678080
V2784	371644	4680623
V2785	371024	4680648
V2786	369611	4678129
V2787	371255	4679408
V2788	369345	4678032
V2789	368321	4677722
V2790	370138	4679374
V2792	369503	4679417
V2802	370950	4679430
V2806	368506	4680696
V2807	368641	4680939
V2809	365118	4679302
V2810	366512	4679480
V2811	366574	4680399
V2812	366601	4680810
V2813	367745	4679102
V2814	367642	4678817
V2817	367410	4680993
V2818	365014	4677676
V2819	366365	4677166
V2820	366390	4677654
V2823	367671	4677869
V2824	367594	4677472
V2826	365786	4681324
V2827	366489	4680802
V2829	366409	4677936
V2830	365084	4678750
V2834	370713	4680807

Receptor ID	Easting	Northing
V2835	371208	4679301
V2836	366377	4679072
V2838	366458	4680343
V2873	358707	4677248
V2874	358973	4677377
V2879	364850	4676817
V2880	364760	4676671
V2881	364725	4676368
V2883	365800	4681476
V2889	369814	4680875
V2892	371395	4680767
V2899	369475	4680901
V2901	369182	4680923
V2918	365218	4680700
V2919	365228	4680803
V2923	366284	4675928
V2926	366275	4675818
V2933	365236	4675865
V2934	364860	4675887
V2935	364507	4675913
V2943	365107	4675987
V2944	363927	4676060
V2946	364810	4676051
V2970	358013	4676582
V2972	357891	4676587
V2973	358260	4676659
V2974	358265	4676699
V2975	358329	4676669
V3010	358463	4676948
V3011	358433	4676951
V3012	358400	4676952
V3013	358369	4676955
V3014	358338	4676959
V3015	358332	4676898
V3016	358363	4676898
V3017	358394	4676892
V3018	358424	4676892
V3019	358454	4676889
V3020	358266	4676962
V3021	358261	4676919
V3024	356613	4676658
V3025	356566	4677316
V3027	355260	4677172

Receptor ID	Easting	Northing
V3042	355193	4677768
V3043	353314	4678349
V3044	353694	4678325
V3045	354038	4677780
V3046	355214	4678075
V3047	354515	4678274
V3048	355338	4678122
V3049	356526	4678148
V3050	356608	4678377
V3051	356627	4678660
V3052	356657	4679106
V3053	355383	4678789
V3054	355282	4679063
V3056	353874	4678754
V3057	352701	4679871
V3058	358315	4677827
V3060	358431	4677783
V3061	358519	4677819
V3062	358219	4677580
V3063	356775	4679077
V3064	358206	4678795
V3065	358268	4678614
V3066	358277	4678523
V3067	358310	4678433
V3068	358404	4678431
V3069	358316	4678164
V3070	358293	4678240
V3072	358398	4678788
V3073	358043	4679307
V3074	358045	4679218
V3075	358114	4679613
V3076	358104	4679447
V3077	358056	4679504
V3078	358040	4679920
V3079	358158	4680384
V3080	358141	4680274
V3090	364815	4676458
V3091	360897	4678162
V3101	357953	4677218
V3102	358423	4679117
V3103	358563	4679352
V3104	358462	4679665
V3105	358428	4679779

Receptor ID	Easting	Northing
V3106	357948	4679569
V3108	358620	4680478
V3109	358368	4680469
V3110	358191	4680594
V3112	358271	4681075
V3114	358364	4681426
V3115	358140	4681625
V3116	358260	4681767
V3117	358691	4681832
V3118	358694	4681868
V3120	358303	4682391
V3196	356895	4682642
V3203	356973	4681951
V3204	356833	4681731
V3205	356775	4680875
V3206	355488	4680356
V3207	356708	4679869
V3208	356689	4679583
V3211	354155	4681232
V3212	354132	4680883
V3213	354118	4680671
V3214	355388	4680651
V3216	355300	4679343
V3217	355266	4678833
V3239	354051	4681491
V3286	352693	4679235
V3289	353095	4679250
V3290	353078	4679114
V3296	353864	4678331
V3297	353553	4678350
V3302	354095	4680524
V3306	356609	4677852
V3307	355584	4681454
V3339	358279	4681503
V3340	358265	4680947
V3341	358261	4680919
V3342	358550	4680606
V3343	358368	4680879
V3344	358368	4680853
V3345	358363	4680823
V3346	358320	4680720
V3347	358254	4680110
V3348	358578	4679763

Receptor ID	Easting	Northing
V3351	358527	4679482
V3358	358086	4677359

Receptor ID	Easting	Northing
V3359	358009	4677093
V3363	360698	4676632

Receptor ID	Easting	Northing
V3379	369399	4679430
V3385	361173	4682000

APPENDIX D – COORDINATES OF PARTICIPANTS

Coordinates of all modeled participants for the Project (UTM17-NAD83 projection) are given in the table below:

Participant ID	Easting	Northing
R714	370573	4680740
R1001	356687	4680281
R1119	361066	4680603
R1142	360855	4678836
R1157	360735	4677611
R1161	363685	4679682
R1162	363695	4679649
R1169	366501	4679808
R1175	366455	4678920
R1177	366421	4678450
R1472	365062	4679792
R1488	364982	4678683
R1500	364995	4677953
R1503	364947	4677836
R1504	364939	4677721
R1507	364985	4677286
R1508	364912	4677331
R2301	355365	4680133
R2314	355352	4678462
V2721	360898	4679858
V2722	360911	4680039
V2731	360762	4677954
V2737	362434	4680662

Participant ID	Easting	Northing
V2740	365112	4680769
V2753	362333	4679352
V2765	361013	4679804
V2766	362206	4679150
V2768	362308	4680494
V2782	370601	4679355
V2791	369720	4679403
V2793	369215	4679437
V2794	368713	4679470
V2815	367820	4680258
V2816	366426	4679853
V2822	367713	4678496
V2825	366396	4679396
V2831	365000	4677422
V3055	354019	4679113
V3059	358320	4677730
V3071	358303	4678041
V3107	358111	4680111
V3111	358228	4680803
V3113	358265	4681231
V3215	355344	4680002
V3230	354037	4679429



APPENDIX E – TURBINE NOISE SPECIFICATIONS

This appendix contains the following supporting documentation for the Siemens SWT-3.2-113 2A Turbine models:

- Guarantee letter from Siemens
- Acoustic emission specifications for each turbine model
- Wind Turbine noise measurement test report, SWT-3.2-113 2A, as per IEC 61400-11 Ed. 3.0

DNV GL notes that the guarantee letter from Siemens indicates that six turbine models will be supplied for the Belle River project. Currently five turbine models are planned, as described in the noise assessment. These five models are a subset of the six models guaranteed by Siemens (i.e., the emissions of all planned turbines are guaranteed by Siemens).



January 30, 2015

To Ontario Ministry of Environment
Re. Belle River Wind Project

Dear Sir/Madam,

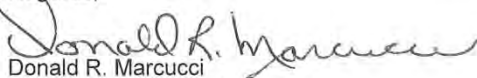
In respect to the Belle River Wind Project, Siemens Canada Limited ("Siemens") will provide the following SWT D3 Direct Drive wind turbine generators: (i) SWT 3.2-113 Max. Power 3200 kW, (ii) SWT 3.2-113 Max. Power 2942 kW, (iii) SWT 3.2-113 Max. Power 2772 kW, (iv) SWT 3.2-113 Max. Power 2473 kW, (v) SWT 3.2-113 Max. Power 2370 kW and (vi) SWT 3.2-113 Max. Power 2257 kW, as applicable for the Project Site. In accordance with the Turbine Supply Agreement to be executed between Siemens and the Project Developer, Siemens will guarantee the maximum broadband sound power level values for these units at their respective maximum rated power levels shown in the table below.

Official Nameplate	Maximum Rated Power Level	Maximum Broadband Sound Power Level	Hub Height
SWT-3.2-113, Max. Power 3200 kW	3.200 MW	106 dBA	99.5m
SWT-3.2-113, Max. Power 2942 kW	2.942 MW	105 dBA	99.5m
SWT-3.2-113, Max. Power 2772 kW	2.772 MW	104 dBA	99.5m
SWT-3.2-113, Max. Power 2473 kW	2.473 MW	102 dBA	99.5m
SWT-3.2-113, Max. Power 2370 kW	2.370 MW	101 dBA	99.5m
SWT-3.2-113, Max. Power 2257 kW	2.257 MW	100 dBA	99.5m

Siemens confirms the attached acoustic emissions data sheets correspond to each of the nameplated wind turbine generators listed above. These sound power levels are presented with reference to the IEC 61400-11:2012 third edition dated 2012 Code based on a hub height of 99.5m.

Siemens can also confirm that the wind turbine generators to be supplied for the Belle River Wind Project should not be tonal since the SWT-3.2-113 wind turbine generators have not been found to produce tonal audibility levels above 3 dB as stated in our acoustic emission documents and calculated using the criteria specified in accordance with IEC 61400-11:2012 Code. In addition, no test uncertainty needs to be included in the calculated tonal audibility per the IEC 61400-11:2012 Code.

Regards,


Donald R. Marcucci
Director Project Acquisitions

Siemens Energy, Inc.
4400 Alafaya Trail, MC Q2-387
Orlando, FL 32826-2399



SWT-3.2-113 (2A), Rev.0, Max. Power 3200 kW Contract Acoustic Emission, Hub Height 99.5 m Belle River - Ontario - Canada

Sound Power Levels

The warranted sound power level is presented with reference to the code IEC 61400-11:2002 with amendment 1 dated 2006-05 based on a hub height of 99.5 m and a roughness length of 0.05 m as described in the IEC code. The sound power levels (L_{WA}) presented are valid for the corresponding wind speeds referenced to a height of 10 m above ground level.

Wind speed [m/s]	3	4	5	6	7	8	9	10	11	Up to cut-out
Max. Power 3200kW	90.9	95.5	100.1	104.9	106.0	106.0	106.0	106.0	106.0	106.0

Table 1: Noise emission, L_{WA} [dB(A) re 1 pW]

Typical Octave Bands

Typical, not warranted octave band spectra are tabulated below referenced to 10 m height.

Octave band, center frequency [Hz]	Wind Speed (m/s)				
	6	7	8	9	10
63	90.7	91.9	91.9	91.9	91.9
125	94.3	94.5	94.5	94.5	94.5
250	97.4	97.8	97.8	97.8	97.8
500	97.5	98.4	98.4	98.4	98.4
1000	98.5	100.0	100.0	100.0	100.0
2000	97.7	99.1	99.1	99.1	99.1
4000	94.3	95.7	95.7	95.7	95.7
8000	85.1	86.8	86.8	86.8	86.8

Table 2: Typical octave band for 6 -10 m/s, L_{WA} [dB(A) re 1 pW]

Measurement Uncertainty

A measurement uncertainty range of -1.5dB(A) to +1.5dB(A) is applicable.

Tonal Audibility

Typical tonal audibility for the Siemens wind turbine generators has not exceeded 3 dB(A) as determined in accordance with IEC 61400-11:2002.

SWT-3.2-113 (2A), Rev.0, Max. Power 2772 kW Contract Acoustic Emission, Hub Height 99.5 m Belle River - Ontario - Canada

Sound Power Levels

The warranted sound power level is presented with reference to the code IEC 61400-11:2002 with amendment 1 dated 2006-05 based on a hub height of 99.5 m and a roughness length of 0.05 m as described in the IEC code. The sound power levels (L_{WA}) presented are valid for the corresponding wind speeds referenced to a height of 10 m above ground level.

Wind speed [m/s]	3	4	5	6	7	8	9	10	11	Up to cut-out
Max. Power 2772kW	90.9	95.5	100.1	103.7	104.0	104.0	104.0	104.0	104.0	104.0

Table 1: Noise emission, L_{WA} [dB(A) re 1 pW]

Typical Octave Bands

Typical, not warranted octave band spectra are tabulated below referenced to 10 m height.

Octave band, center frequency [Hz]	Wind Speed (m/s)				
	6	7	8	9	10
63	90.5	91.3	91.3	91.3	91.3
125	93.9	93.6	93.6	93.6	93.6
250	96.1	95.6	95.6	95.6	95.6
500	96.2	96.2	96.2	96.2	96.2
1000	97.2	97.8	97.8	97.8	97.8
2000	96.4	96.9	96.9	96.9	96.9
4000	93.0	93.5	93.5	93.5	93.5
8000	83.8	84.6	84.6	84.6	84.6

Table 2: Typical octave band for 6 - 10 m/s, L_{WA} [dB(A) re 1 pW]

Measurement Uncertainty

A measurement uncertainty range of -1.5dB(A) to +1.5dB(A) is applicable.

Tonal Audibility

Typical tonal audibility for the Siemens wind turbine generators has not exceeded 3 dB(A) as determined in accordance with IEC 61400-11:2002.



SWT-3.2-113 (2A), Rev.0, Max. Power 2473 kW Contract Acoustic Emission, Hub Height 99.5 m Belle River - Ontario - Canada

Sound Power Levels

The warranted sound power level is presented with reference to the code IEC 61400-11:2002 with amendment 1 dated 2006-05 based on a hub height of 99.5 m and a roughness length of 0.05 m as described in the IEC code. The sound power levels (L_{WA}) presented are valid for the corresponding wind speeds referenced to a height of 10 m above ground level.

Wind speed [m/s]	3	4	5	6	7	8	9	10	11	Up to cut-out
Max. Power 2473kW	90.9	95.5	99.9	102.0	102.0	102.0	102.0	102.0	102.0	102.0

Table 1: Noise emission, L_{WA} [dB(A) re 1 pW]

Typical Octave Bands

Typical, not warranted octave band spectra are tabulated below referenced to 10 m height.

Octave band, center frequency [Hz]	Wind Speed (m/s)				
	6	7	8	9	10
63	90.0	90.9	90.9	90.9	90.9
125	92.6	92.9	92.9	92.9	92.9
250	93.8	93.4	93.4	93.4	93.4
500	94.2	94.0	94.0	94.0	94.0
1000	95.5	95.6	95.6	95.6	95.6
2000	94.7	94.7	94.7	94.7	94.7
4000	91.3	91.3	91.3	91.3	91.3
8000	82.3	82.4	82.4	82.4	82.4

Table 2: Typical octave band for 6 -10 m/s, L_{WA} [dB(A) re 1 pW]

Measurement Uncertainty

A measurement uncertainty range of -1.5dB(A) to +1.5dB(A) is applicable.

Tonal Audibility

Typical tonal audibility for the Siemens wind turbine generators has not exceeded 3 dB(A) as determined in accordance with IEC 61400-11:2002.

SWT-3.2-113 (2A), Rev.0, Max. Power 2370 kW Contract Acoustic Emission, Hub Height 99.5 m Belle River - Ontario - Canada

Sound Power Levels

The warranted sound power level is presented with reference to the code IEC 61400-11:2002 with amendment 1 dated 2006-05 based on a hub height of 99.5 m and a roughness length of 0.05 m as described in the IEC code. The sound power levels (L_{WA}) presented are valid for the corresponding wind speeds referenced to a height of 10 m above ground level.

Wind speed [m/s]	3	4	5	6	7	8	9	10	11	Up to cut-out
Max. Power 2370kW	90.9	95.5	99.8	101.0	101.0	101.0	101.0	101.0	101.0	101.0

Table 1: Noise emission, L_{WA} [dB(A) re 1 pW]

Typical Octave Bands

Typical, not warranted octave band spectra are tabulated below referenced to 10 m height.

Octave band, center frequency [Hz]	Wind Speed (m/s)				
	6	7	8	9	10
63	89.8	90.7	90.7	90.7	90.7
125	92.2	92.5	92.5	92.5	92.5
250	92.6	92.2	92.2	92.2	92.2
500	93.0	92.8	92.8	92.8	92.8
1000	94.4	94.4	94.4	94.4	94.4
2000	93.5	93.5	93.5	93.5	93.5
4000	90.1	90.1	90.1	90.1	90.1
8000	81.1	81.2	81.2	81.2	81.2

Table 2: Typical octave band for 6 -10 m/s, L_{WA} [dB(A) re 1 pW]

Measurement Uncertainty

A measurement uncertainty range of -1.5dB(A) to +1.5dB(A) is applicable.

Tonal Audibility

Typical tonal audibility for the Siemens wind turbine generators has not exceeded 3 dB(A) as determined in accordance with IEC 61400-11:2002.

SWT-3.2-113 (2A), Rev.0, Max. Power 2257 kW Contract Acoustic Emission, Hub Height 99.5 m Belle River - Ontario - Canada

Sound Power Levels

The warranted sound power level is presented with reference to the code IEC 61400-11:2002 with amendment 1 dated 2006-05 based on a hub height of 99.5 m and a roughness length of 0.05 m as described in the IEC code. The sound power levels (L_{WA}) presented are valid for the corresponding wind speeds referenced to a height of 10 m above ground level.

Wind speed [m/s]	3	4	5	6	7	8	9	10	11	Up to cut-out
Max. Power 2257kW	90.9	95.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 1: Noise emission, L_{WA} [dB(A) re 1 pW]

Typical Octave Bands

Typical, not warranted octave band spectra are tabulated below referenced to 10 m height.

Octave band, center frequency [Hz]	Wind Speed (m/s)				
	6	7	8	9	10
63	89.6	90.5	90.5	90.5	90.5
125	91.4	92.1	92.1	92.1	92.1
250	91.2	91.0	91.0	91.0	91.0
500	91.8	91.6	91.6	91.6	91.6
1000	93.4	93.2	93.2	93.2	93.2
2000	92.5	92.3	92.3	92.3	92.3
4000	89.1	88.9	88.9	88.9	88.9
8000	80.2	80.0	80.0	80.0	80.0

Table 2: Typical octave band for 6 -10 m/s, L_{WA} [dB(A) re 1 pW]

Measurement Uncertainty

A measurement uncertainty range of -1.5dB(A) to +1.5dB(A) is applicable.

Tonal Audibility

Typical tonal audibility for the Siemens wind turbine generators has not exceeded 3 dB(A) as determined in accordance with IEC 61400-11:2002.

TEST REPORT

This Test Report may only be reproduced in full.
The test results are valid for the tested object only.
Text written in *italics* is not part of the accredited test.



Wind Turbine noise measurement, IEC 61400 ed. 3.0
Siemens SWT 3.2-113. Power curve revision 0

Page 1 of 36 pages
Incl. 3 enclosure

Report no.: P6.003.15
Aarhus 23. January 2015
Project: 35.6342.24

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Rev. 2014.01.04 BNC

Summary:

For the Siemens wind turbine type SWT 3.2-113, serial number 3000364, the following acoustic data has been determined according to IEC 61400-11 Edition 3.0:

Wind speed Bin (hub height) [m/s]	Power [kW]	Apparent Sound Power level L_{WA} [dB]	Uncertainty U_{LWA} [dB]	Maximum Tonal Audibility ΔL_s [dB]	RPM [min ⁻¹]
7,5	1255	101,5	0,8	-	12,3
8,0	1506	103,3	0,7	< -3	13,1
8,5	1811	104,9	0,9	< -3	13,8
9,0	2115	105,8	0,8	< -3	14,3
9,5	2414	105,7	0,8	< -3	14,4
10,0	2712	105,5	0,8	< -3	14,3
10,5	2898	105,3	0,8	-0,5	14,3
11,0	3083	105,0	0,8	-0,1	14,2
11,5	3135	105,1	0,9	1,5	14,2
12,0	3187	105,0	0,8	0,1	14,5
12,5	3193	105,3	0,8	1,5	14,8
13,0	3199	104,8	1,0	0,2	14,7
13,5	3200	104,6	1,0	-1,0	14,7
14,0	3200	105,2	0,9	-0,3	14,9

Wind speed at 10 m height V_{10} [m/s]	6	7	8	9	10
Apparent Sound Power Level $L_{WA,10m}$ [dB re 1 pW]	104,9	105,6	105,1	105,1	105,3
Uncertainty U_{LWA} [dB]	0,8	0,7	0,7	0,7	0,8

Third octave band spectra are found in Enclosure 1.
The measurements were carried out on 16. Januar 2015, at Flø, Brande wind farm, Denmark.



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1 INTRODUCTION

Siemens Wind Power A/S has requested Grontmij A/S, Acoustica, to carry out acoustic noise measurements for a SWT 3.2-113 wind turbine erected at Flø, Brande Wind farm, Denmark.

Grontmij A/S, Acoustica, is accredited by DANAK (Danish Accreditation) under EN ISO/IEC 17025 to perform testing using the relevant standards.

2 METHODOLOGY

2.1 Standard

The measurements, data reduction, and calculations were carried out according to the standard IEC 61400 –11, edition 3.0 "Wind turbine generator systems – Part 11: Acoustic noise measurement techniques", 2012-11. The required range of wind speeds according the standard is from 8,0 m/s to 13 m/s at hub height corresponding to the wind speed bins from 8,0 to 13.

2.2 Deviations from IEC 61400-11 Ed. 3.0

None.

2.3 Options used from IEC 61400-11 Ed. 3.0

Measurements were made in the reference position according to IEC 61400-11 edition 3. No optional measurements positions were used.

3 CHARACTERIZATION OF THE WIND TURBINE

Details of the wind turbine can be found in the Manufacturers Certificate in enclosure 3. The power curve used is listed in Figure 1 below and is provided by the manufacturer.

Figure 1. Power curve provided by the manufacturer:

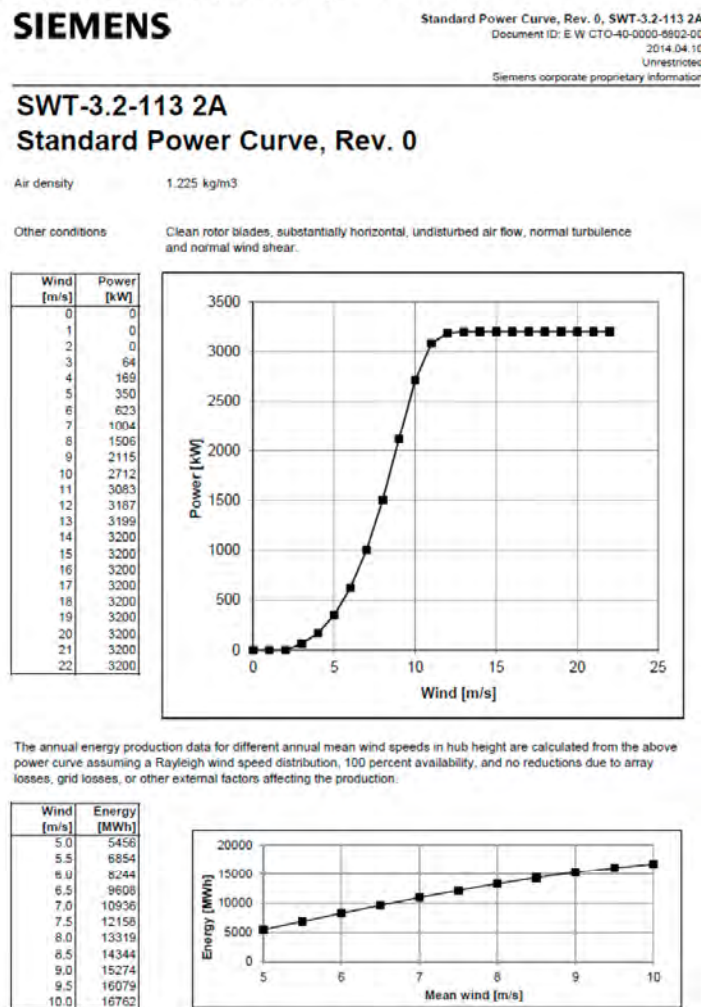


Figure 3. Photo of the wind turbine and the reference microphone position.



Figure 4. Photo of 10 m mast position



Figure 5. Photo of the terrain and surroundings in front of the wind turbine



Figure 6. Photo of the terrain and surroundings behind the wind turbine



5 INSTRUMENTATION

Table 2. Instrumentation used for measurements and analysis

Description	Manufacturer	Type	ACA no.	Calibrated	Next calibration
Microphone 1/2"	BSWA Tech	MPA261	147	18-04-2013	18-04-2015
Calibrator	Brüel & Kjær	4200	22	05-02-2014	05-02-2015
Anemometer	Autohelm	ZC80	690	07-10-2014	07-10-2016
Data acquisition	National Instr.	PXI-4462	626	10-01-2014	10-01-2016
Data acquisition	National Instr.	PXI-6220	626	10-01-2014	10-01-2016

The power converter installed by the manufacturer in the control system was used.
 The manufacturer has provided documentation for the accuracy to be better than 1%.

No secondary wind screen was used.

Table 3. Microphone positions

Position	Horizontal distance from tower centreline	Vertical distance from tower foundation
1 (ref. pos.)	152 m	0 m

6 ACOUSTIC DATA

The measurements were carried out during the following period:
2015-01-16, 11.17h to 17.56h local time

The normalized wind speed at hub height was determined from the measured power output and the power curve shown in

Figure 1 for each 10-second period of the measurements.

The allowed range of the power curve is determined according to formula (3) in IEC 61400-11 Ed. 3.0.

With the wind turbine stopped, the normalised wind speed was determined through the wind speed measured at height Z and to formula (5). Anemometer height during measurements were 10 m.

Measured data pairs of total noise are excluded from the analysis and calculations if:

- The minimum measured power output is less than or equal to 0 kW, or
- The nacelle azimuth deviates more than $\pm 15^\circ$ from a true downwind direction in the reference microphone position, or
- The sound pressure is influenced by loud background noise.

The correction factor K_N is calculated to $K_N = 1,06$ K_{10m} is calculated to $K_{10m} = 0,98$. Details are shown seen in Figure 8 and Figure 9.

Measured data pairs of background noise are excluded from the analysis and calculations if the sound pressure is influenced by loud background noise.

Figure 7. Relation between nacelle anemometer wind speed $V_{nac,n}$ and the wind speed $V_{P,n}$ at hub height determined from measurements of electrical power.

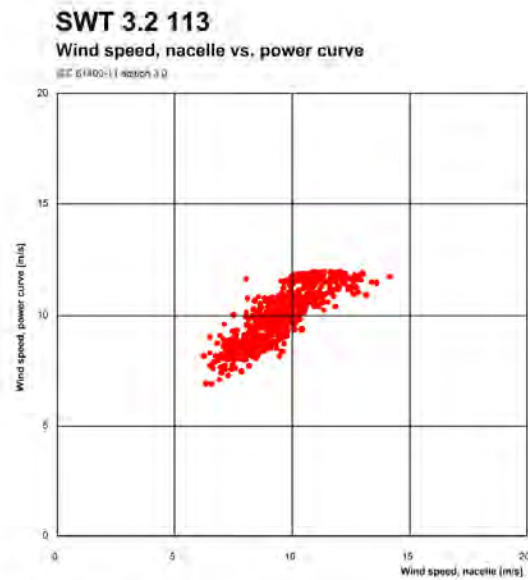


Figure 8. Relation between anemometer wind speed V_{10} and the wind speed $V_{P,n}$ at hub height determined from measurements of electrical power

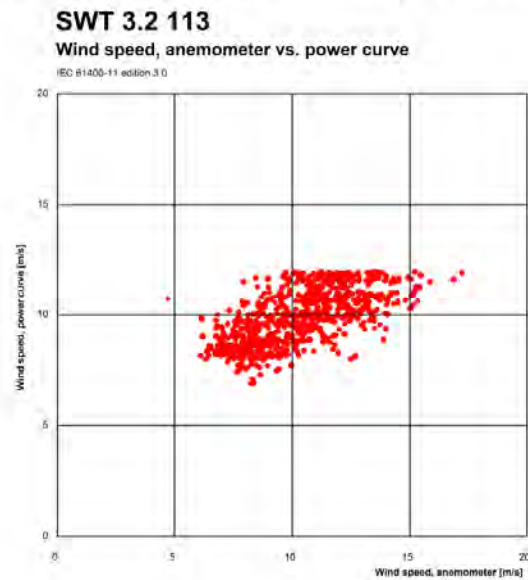


Figure 9. Measured data pairs at the reference microphone position.

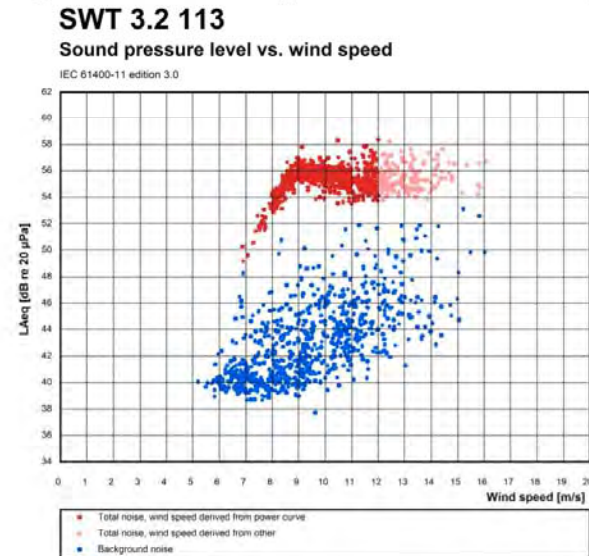


Figure 10. Measured data pairs at the reference microphone.

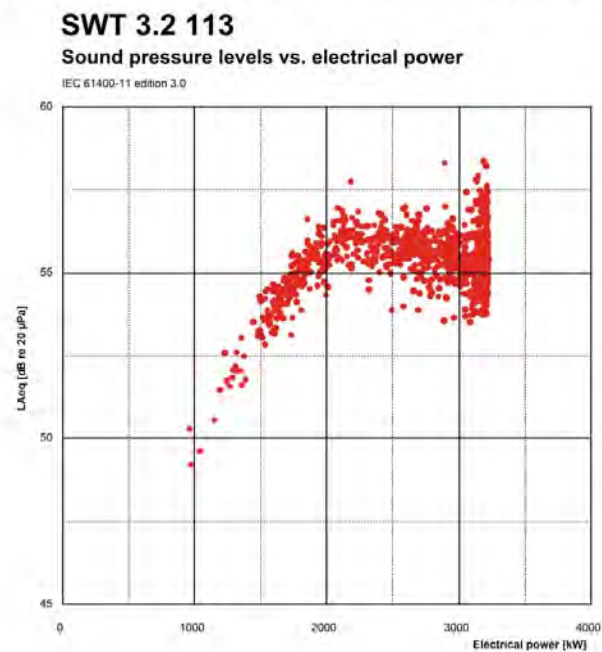


Table 4 shows the BIN-analysis of the measured noise levels with the turbine in operation and stopped. In column 2, the number of measurements are shown indicating also the amount of data from the allowed range of the power curve (P.C.) and outside the allowed range (other). The required wind speed range is the wind speed bins from 8,0 m/s to 13,0 m/s.

Table 4. BIN-analysis of noise levels with wind turbine in operation and stopped.

Wind speed bin (hub height) [m/s]	Records total noise [all (P.C./other)]	Records background noise	Total noise level [dB]	Backgr. noise level [dB]	Backgr. corrected level [dB]	Apparent Sound power level [dB]	Uncertainty [dB]
7,5	15 (15 / 0)	57	51,8	41,6	51,3	101,5	0,8
8,0	53 (53 / 0)	67	53,5	42,3	53,1	103,3	0,7
8,5	97 (97 / 0)	61	55,1	43,1	54,8	104,9	0,9
9,0	80 (80 / 0)	65	55,9	43,4	55,7	105,8	0,8
9,5	86 (86 / 0)	54	55,8	43,7	55,5	105,7	0,8
10,0	106 (106 / 0)	44	55,7	44,6	55,4	105,5	0,8
10,5	105 (105 / 0)	60	55,6	44,8	55,2	105,3	0,8
11,0	83 (83 / 0)	52	55,3	44,9	54,9	105,0	0,8
11,5	90 (90 / 0)	40	55,5	46,0	54,9	105,1	0,9
12,0	88 (63 / 25)	33	55,5	46,3	54,9	105,0	0,8
12,5	46 (0 / 46)	25	55,7	46,5	55,1	105,3	0,8
13,0	39 (0 / 39)	19	55,4	47,6	54,7	104,8	1,0
13,5	29 (0 / 29)	13	55,4	48,1	54,5	104,6	1,0
14,0	16 (0 / 16)	10	55,7	47,2	55,1	105,2	0,9

Table 5. BIN-analysis of other parameters.

Wind speed bin (hub height) [m/s]	Records backgr. noise	Wind speed backgr. noise [m/s]	Records total noise	Wind speed total noise [m/s]	Power [kW]	RPM	Nacelle wind speed [m/s]	Anemometer wind speed [m/s]
7,5	57	7,5	15	7,6	1291,2	12,3	7,2	6,0
8	67	8,0	53	8,1	1573,0	13,1	7,6	6,0
8,5	61	8,5	97	8,5	1810,3	13,8	8,1	6,0
9	65	9,0	80	9,0	2108,2	14,3	8,5	6,4
9,5	54	9,5	86	9,5	2425,0	14,4	9,1	6,8
10	44	10,0	106	10,0	2684,9	14,3	9,4	7,5
10,5	60	10,5	105	10,5	2910,3	14,3	10,0	7,7
11	52	11,0	83	11,0	3054,7	14,2	10,7	8,0
11,5	40	11,5	90	11,5	3139,1	14,2	11,2	8,1
12	33	12,0	88	11,9	3183,8	14,5	11,5	8,1
12,5	25	12,5	46	12,4	3204,3	14,8	11,7	8,1
13	19	13,0	39	13,0	3205,8	14,7	12,2	7,0
13,5	13	13,5	29	13,5	3204,7	14,7	12,7	8,4
14,0	10	14,0	16	14,1	3206,5	14,9	13,3	7,3

6.1 Apparent sound power levels

The apparent sound power levels $L_{WA,k}$ are shown in Table 4 and the apparent sound with reference to wind speed at 10 m height power levels, $L_{WA,k,10m}$ is shown in Table 6.

Figure 11. Apparent sound power levels L_{WA} and uncertainty U_{LWA} at bin centre wind speeds.

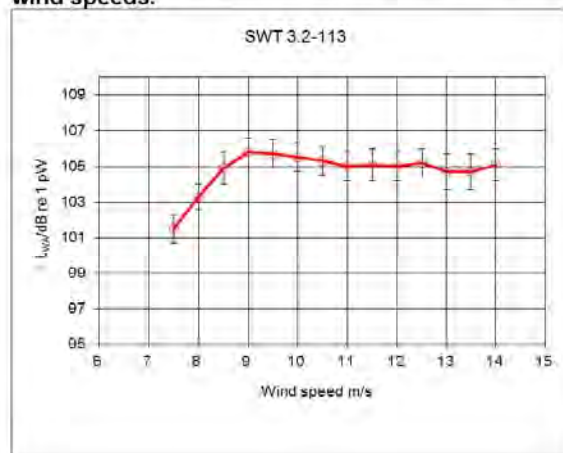


Table 6. Apparent sound power levels at integer wind speeds reference to wind speed at 10 m height power levels, $L_{WA,k,10m}$

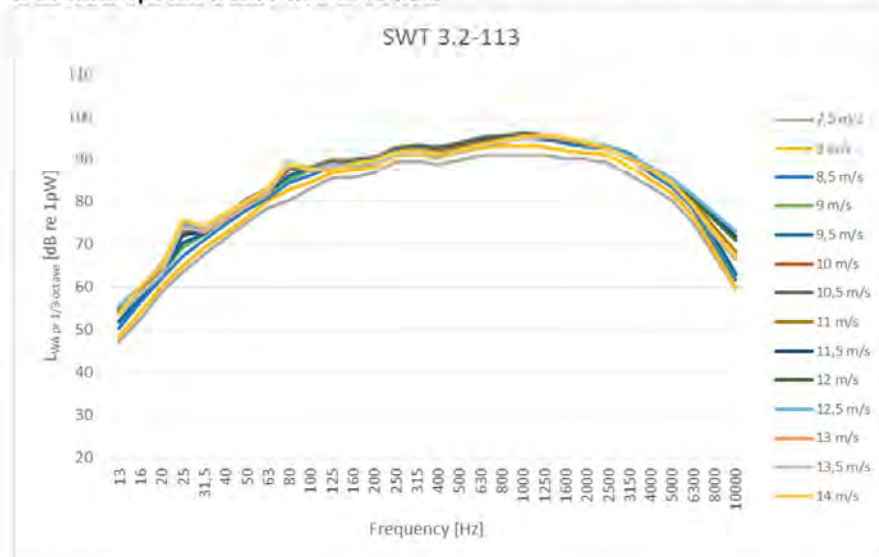
Wind speed bin (10 m height) [m/s]	Wind speed at hub height [m/s]	Sound power level [dB]	Uncertainty [dB]
6,0	8,5	104,9	0,8
7,0	9,9	105,6	0,7
8,0	11,3	105,1	0,7
9,0	12,7	105,1	0,7
10,0	14,1	105,3	0,8

6.2 Third octave spectra

Third octave spectra for the sound pressure of the total noise, the background noise and the background corrected wind turbine noise is shown in enclosure 1 together with the spectra of the apparent sound power level and the uncertainty for each wind speed bin. Numbers in brackets indicates that the difference between total noise and background noise is less than 3 dB. For this situation, the numbers are given as the total noise -3 dB. Third octave spectra of the apparent sound power levels are shown in Figure 12.

All third octave spectra are A-weighted and corrected for the influence of the background noise.

Figure 12. Third octave spectra of the Apparent Sound Power Level at normalised wind speeds from 7 m/s to 14 m/s.



6.3 Tonality

The tonality analysis is carried out using A-weighting.

The level of the background noise in the critical bands was more than 6 dB below the total noise.

The tones with the highest tonal audibility are identified and reported.

FFT-spectra and the tonality analysis are shown in Enclosure 2. The spectra are shown as overlay plots (gray). The small insert show the details in classification of lines in the highlighted spectrum. The resulting tonal audibility is shown in Table 7.

FFT-spectra are analysed with a resolution of 2 Hz and 50 % overlap.

Table 7. Tonality

Wind speed [m/s]	Frequency [Hz]	Tonal Audibility [dB]	Comments]
7,5	-	-	No tones found
8,0	70	< -3	No relevant tones
8,5	93	< -3	No relevant tones
9,0	87	< -3	No relevant tones
9,5	75	< -3	No relevant tones
10,0	75	< -3	No relevant tones
10,5	75	-0,5	Tone
11,0	75	-0,1	Tone
11,5	75	1,5	Tone
12,0	79	0,1	Tone
12,5	83	1,5	Tone
13,0	83	0,2	Tone
13,5	75	-1,0	Tone
14,0	83	-0,3	Tone

7 NON-ACOUSTIC DATA

Table 8. Non-acoustic data

Wind speed determination method	Electric output and power curve
Air temperature	1°C – 3°C
Atmospheric pressure	99-99,5 kPa
Relative Humidity	50 - 60 %
Roughness length	0.05 m (estimated)
Wind direction	220° - 240°

8 UNCERTAINTY

The uncertainties are given as the combined standard uncertainties based on the distribution of the data and the values in Table 9.

Table 9. Evaluated type B uncertainty components

Component	Value
Calibration, U_{B1}	0,2 dB
Board, U_{B3}	0,3 dB
Distance and direction, U_{B5}	0,1 dB
Weather conditions, U_{B7}	0,5 dB
Wind speed, derived, U_{B8}	0,7 m/s
Wind speed, measured, U_{B8}	0,2 m/s
Wind speed, derived, U_{B7}	0,2 m/s

9 CONCLUSION

The noise emission from Siemens wind turbine SWT 3.2-113, situated at Flø, Brande, Denmark has been determined. The measurement results are shown in Table 10.

Table 10. Apparent sound power level L_{WA} dB re 1 pW

Wind speed bin [m/s]	Power [kW]	Apparent Sound power level L_{WA} [dB]	Uncertainty U_{LWA} [dB]	Maximum Tonal Audibility [dB]	RPM [min ⁻¹]
7,5	1255	101,5	0,8	No tones found	12,3
8,0	1506	103,3	0,7	< -3	13,1
8,5	1811	104,9	0,9	< -3	13,8
9,0	2115	105,8	0,8	< -3	14,3
9,5	2414	105,7	0,8	< -3	14,4
10,0	2712	105,5	0,8	< -3	14,3
10,5	2898	105,3	0,8	-0,5	14,3
11,0	3083	105,0	0,8	-0,1	14,2
11,5	3135	105,1	0,9	1,5	14,2
12,0	3187	105,0	0,8	0,1	14,5
12,5	3193	105,3	0,8	1,5	14,8
13,0	3199	104,8	1,0	0,2	14,7
13,5	3200	104,6	1,0	-1,0	14,7
14,0	3200	105,2	0,9	-0,3	14,9

The results were obtained at a horizontal distance of 152 m from the turbine tower centre.

The noise from the turbine was dominated by broadband noise from the rotor. There was no significant noise from yawing or other single events during measurements.

The background noise was untypically high, probably due to wind noise in the vegetation. These conditions may have influenced the measurements.

ENCLOSURE 1. APPARENT SOUND POWER SPECTRA AT WIND SPEED BINS FROM
7,5 M/S TO 14 M/S AT HUB HEIGHT

Numbers in brackets indicate that signal to noise ratio is less than 3 dB

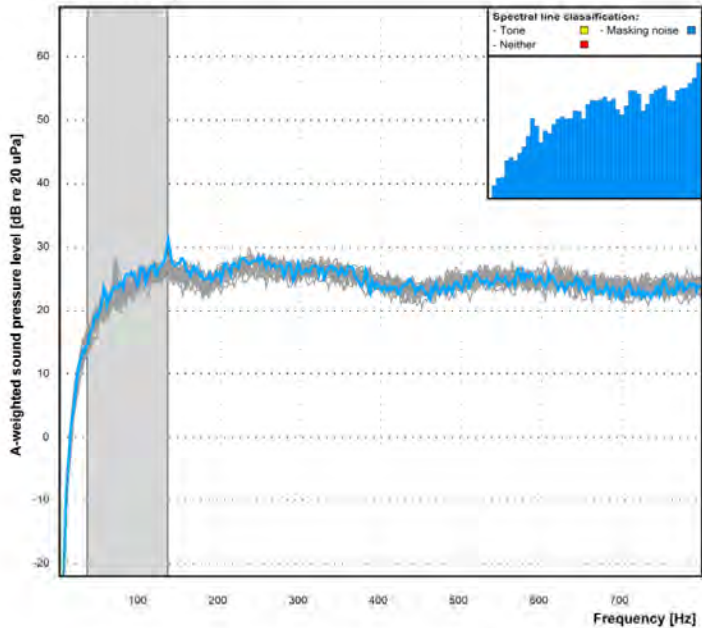
Wind speed [m/s]	Parameter	1/3-octave band [Hz]																Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Wind Speed B/N [m/s]	Parameter	1/3-octave band [Hz]																Total															
		10	12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	Total
		1.1	5.6	11.4	18.2	24.5	24.5	27.2	30.6	33.1	38.4	38.1	39.7	39.8	40.5	42.4	42.9	42.2	42.8	44.0	44.7	45.4	45.6	45.0	44.2	43.0	41.0	38.3	35.4	31.5	26.8	21.8	55.5
12.0	Total noise	-1.1	5.6	11.4	18.2	24.5	24.5	27.2	30.6	33.1	38.4	38.1	39.7	39.8	40.5	42.4	42.9	42.2	42.8	44.0	44.7	45.4	45.6	45.0	44.2	43.0	41.0	38.3	35.4	31.5	26.8	21.8 <td>55.5</td>	55.5
	Background noise	-3.7	1.7	6.4	9.7	13.5	15.7	18.3	21.6	24.6	27.8	29.9	31.8	32.8	33.9	35.5	36.0	34.6	34.8	34.9	35.2	35.1	34.7	34.0	33.3	32.2	30.9	28.9	26.6	24.2	20.3	15.2	46.4
	Turbine noise	0.6	5.0	9.7	15.1	24.2	23.8	26.7	30.0	32.4	38.1	37.4	38.9	38.8	39.4	41.4	42.0	41.3	42.1	43.4	44.1	45.0	45.3	44.8	43.8	42.7	40.6	37.8	34.8	30.6	25.8	20.7	54.9
	Avg. Sound Power Level	49.5	55.1	59.8	65.3	74.3	74.3	76.8	80.1	82.5	88.2	87.5	89.0	88.9	89.5	91.6	92.1	91.5	92.3	93.6	94.3	95.2	95.4	94.8	94.0	92.8	90.7	87.8	85.0	80.8	75.9	70.9	105.0
12.5	Total noise	-1.3	2.8	11.8	16.3	25.3	24.6	27.3	30.5	33.0	39.4	38.2	39.7	39.8	40.6	42.6	43.1	42.3	43.0	44.2	44.8	45.6	45.9	45.4	44.6	43.3	41.2	38.6	35.8	32.3	28.2	23.8	55.7
	Background noise	-0.1	5.4	10.3	15.7	24.7	24.0	26.7	29.9	32.3	38.1	37.5	38.9	38.8	39.5	41.7	42.2	41.5	42.2	43.6	44.3	45.2	45.6	45.0	44.2	43.0	40.8	38.1	35.3	31.4	27.4	23.1	55.1
	Turbine noise	0.5	5.4	10.1	15.1	25.0	24.0	26.7	29.9	32.3	38.1	37.5	38.9	38.8	39.5	41.7	42.2	41.5	42.2	43.6	44.3	45.2	45.6	45.0	44.2	43.0	40.8	38.1	35.3	31.4	27.4	23.1	55.1
	Avg. Sound Power Level	50.7	56.3	61.0	66.3	75.1	74.2	76.8	80.0	82.4	88.3	87.6	89.0	88.9	89.7	91.8	92.3	91.6	92.4	93.7	94.4	95.3	95.7	95.2	94.4	93.1	90.9	88.2	85.4	81.6	77.5	73.2	105.3
13.0	Total noise	0.9	6.5	11.2	15.6	24.7	23.8	26.8	30.2	32.9	39.3	38.0	39.5	39.7	40.5	42.5	43.0	42.2	42.9	44.0	44.8	45.5	45.7	45.1	44.2	42.8	40.7	38.1	35.1	30.9	25.7	20.0	55.4
	Background noise	-1.0	5.1	8.2	12.1	15.2	17.7	20.3	23.4	26.5	32.9	31.4	33.6	34.4	35.8	37.1	37.6	36.6	36.3	35.9	36.0	36.6	35.1	34.6	34.1	33.4	32.2	30.3	28.0	25.7	21.9	16.6	47.6
	Turbine noise	-1.9	5.6	10.2	13.1	24.2	22.6	26.7	29.2	31.7	38.9	38.0	39.6	39.2	38.8	41.0	41.5	40.8	41.3	43.0	44.0	45.0	45.3	44.7	43.8	42.3	40.3	37.3	34.2	30.3	25.3	17.3	54.7
	Avg. Sound Power Level	45.2	50.3	54.6	59.3	67.2	67.2	69.7	72.9	75.3	81.2	80.5	81.9	82.2	83.1	85.2	85.7	85.0	84.3	84.0	84.3	84.9	84.0	83.3	82.6	81.3	79.2	76.5	73.8	70.0	65.9	61.8	57.7
13.5	Total noise	1.8	2.7	12.1	16.2	24.8	24.8	27.8	31.2	33.8	40.2	38.9	40.1	40.1	41.1	43.1	43.2	42.2	42.9	44.0	44.8	45.5	45.7	45.1	44.2	42.8	40.7	38.1	35.1	30.9	25.7	20.0	55.4
	Background noise	-0.7	4.7	10.0	13.2	16.5	18.5	20.9	23.5	27.1	33.1	31.8	35.2	34.8	36.2	37.4	37.8	36.9	36.8	36.3	36.5	36.0	35.6	35.1	34.5	33.8	32.6	30.8	28.4	26.2	22.2	16.9	48.1
	Turbine noise	-0.5	5.7	11.5	16.0	24.6	24.5	27.5	30.9	33.4	39.1	38.4	39.9	40.0	40.7	42.6	42.9	42.1	42.7	43.8	44.5	45.3	45.6	45.1	44.2	42.7	40.6	38.1	35.0	30.8	25.0	19.0	55.4
	Avg. Sound Power Level	47.7	52.8	57.1	61.8	69.7	69.7	72.2	75.4	77.8	83.7	83.0	84.4	84.7	85.5	87.6	88.1	87.4	86.7	86.4	86.7	86.2	85.8	85.3	84.7	83.4	81.3	78.6	75.9	72.2	68.1	64.0	59.9
14.0	Total noise	2.3	3.3	12.3	16.3	25.0	24.9	27.9	30.7	33.6	39.4	38.5	39.9	40.0	40.9	42.8	43.2	42.4	43.0	44.3	44.9	45.8	46.0	45.4	44.5	43.0	40.7	38.2	35.2	30.8	25.6	20.0	55.7
	Background noise	-4.2	2.1	6.6	10.5	13.4	16.5	19.1	21.3	24.6	30.1	29.6	31.0	32.4	34.2	35.9	36.0	35.1	35.0	35.1	35.8	35.3	34.9	34.2	33.5	32.6	31.4	29.4	27.1	24.8	21.0	16.8	47.2
	Turbine noise	-0.5	6.1	11.7	16.2	25.4	24.4	27.2	30.2	33.0	39.1	37.8	39.3	39.0	39.9	41.3	41.8	41.2	42.2	43.7	44.3	45.4	45.7	45.1	44.6	43.2	40.2	37.4	34.5	30.6	23.7	18.9	47.7
	Avg. Sound Power Level	50.6	56.2	60.9	65.3	74.0	74.5	77.4	80.3	83.2	89.1	88.4	89.8	89.9	90.9	92.8	93.3	92.6	92.4	92.8	93.4	94.5	95.5	95.8	95.2	94.3	92.7	90.4	87.8	84.6	79.7	73.8	68.1
14.5	Total noise	1.4	3.6	12.4	16.4	25.1	25.0	28.0	30.8	33.7	39.5	38.6	40.0	40.1	41.0	42.9	43.3	42.5	43.1	44.4	45.0	45.9	46.1	45.5	44.6	43.1	40.8	38.3	35.3	31.0	25.9	20.1	55.8
	Background noise	-4.7	2.2	6.7	10.6	13.5	16.6	19.2	21.4	24.7	30.2	29.7	31.1	32.5	34.3	36.0	36.1	35.2	35.1	35.2	35.9	35.4	35.0	34.3	33.6	32.7	31.5	29.5	27.2	24.9	21.1	16.9	47.8
	Turbine noise	-0.6	6.2	11.8	16.3	25.5	24.5	27.3	30.3	33.2	39.6	38.7	40.1	40.2	41.1	43.0	43.4	42.6	43.2	44.5	45.1	46.0	46.2	45.6	44.7	43.2	40.9	38.4	35.4	31.1	26.0	20.2	55.9
	Avg. Sound Power Level	50.6	56.2	60.9	65.3	74.0	74.5	77.4	80.3	83.2	89.1	88.4	89.8	89.9	90.9	92.8	93.3	92.6	92.4	92.8	93.4	94.5	95.5	95.8	95.2	94.3	92.7	90.4	87.8	84.6	79.7	73.8	68.1

ENCLOSURE 2. TONALITY ANALYSIS (15 PAGES)

SWT 3.2 113

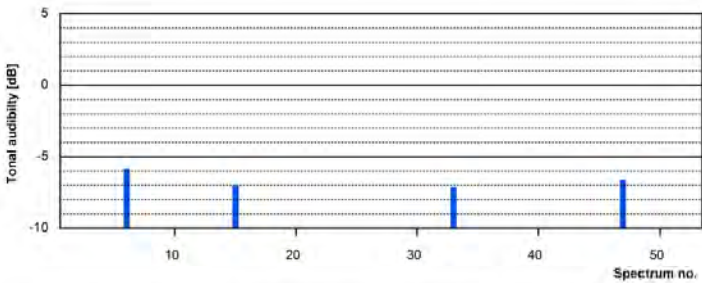
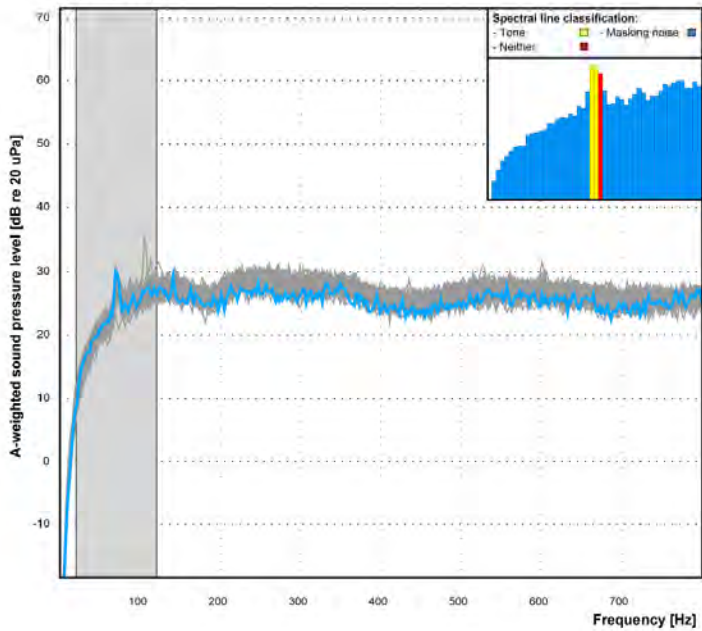
Tonality analysis according to IEC 61400, 3rd ed.
Wind class: 7.5 [m/s]



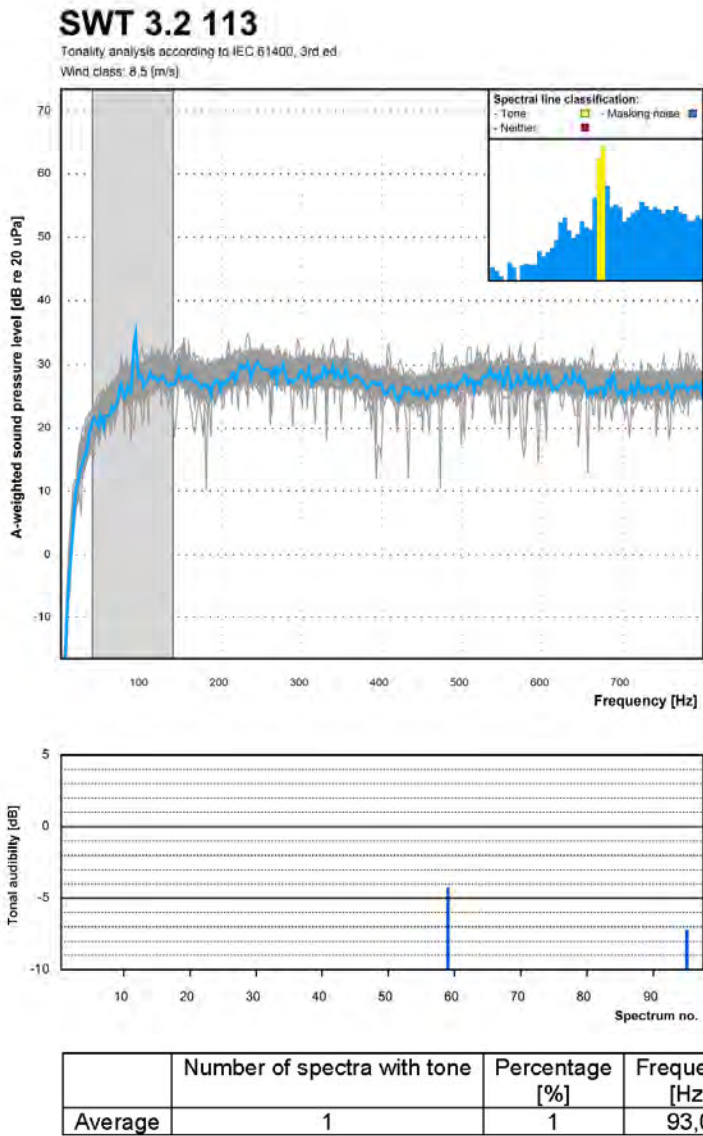
	Number of spectra with tone	Percentage [%]	Frequency [Hz]	L _{a,k} [dB]
Average	0	0	-	-

SWT 3.2 113

Tonality analysis according to IEC 61400, 3rd ed.
Wind class: 8.0 (m/s)

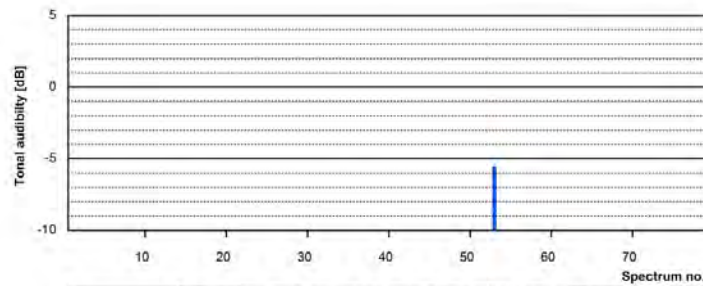
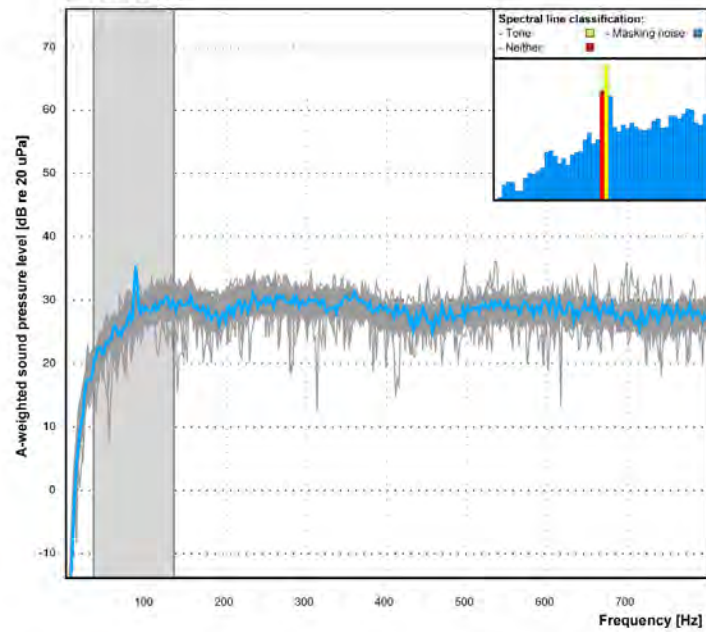


	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	4	8	70,0	-6,6

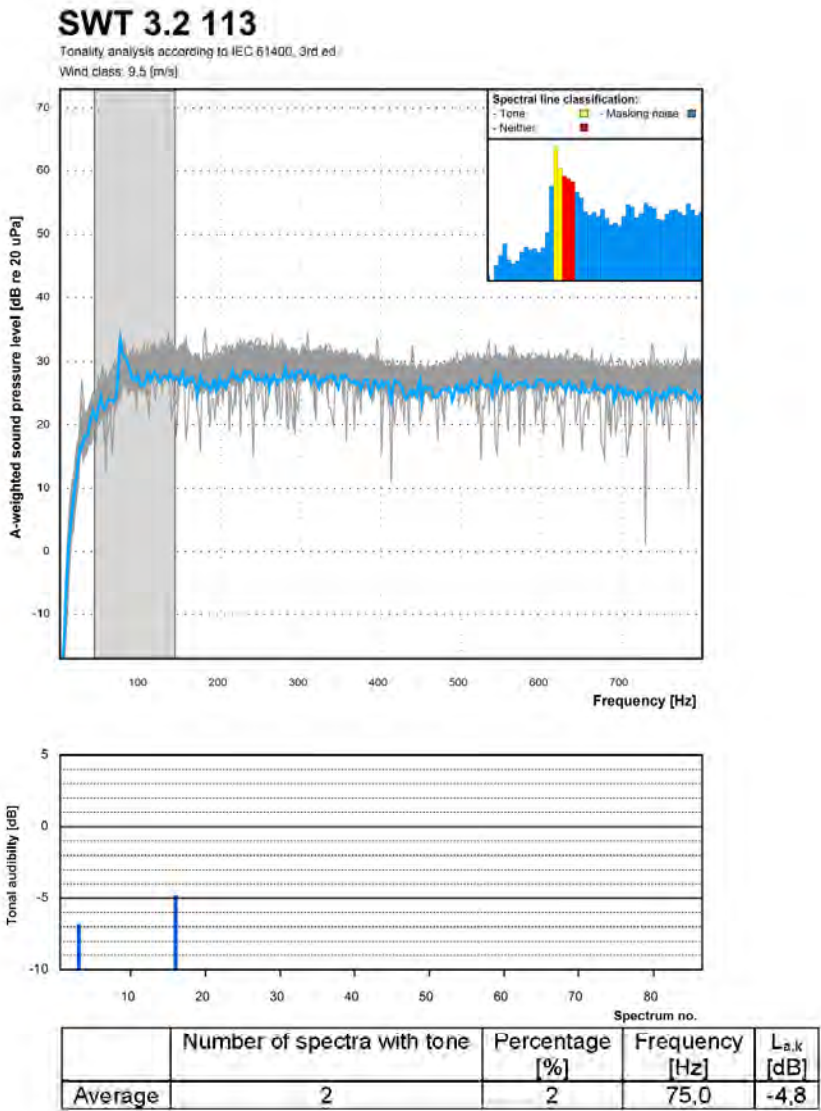


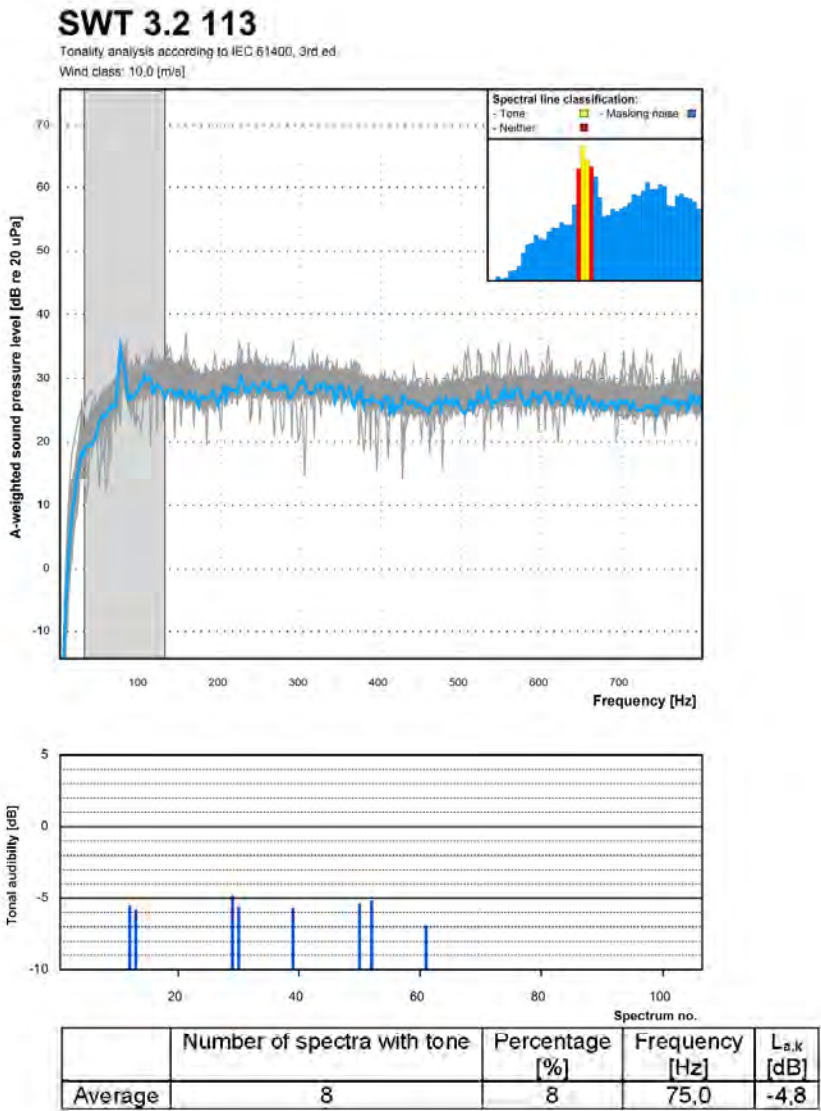
SWT 3.2 113

Tonality analysis according to IEC 61400, 3rd ed.
 Wind class: 9.0 [m/s]



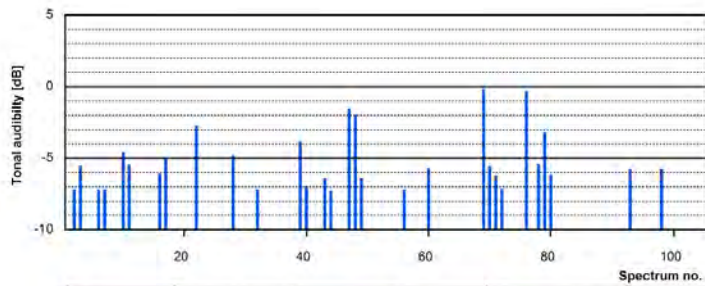
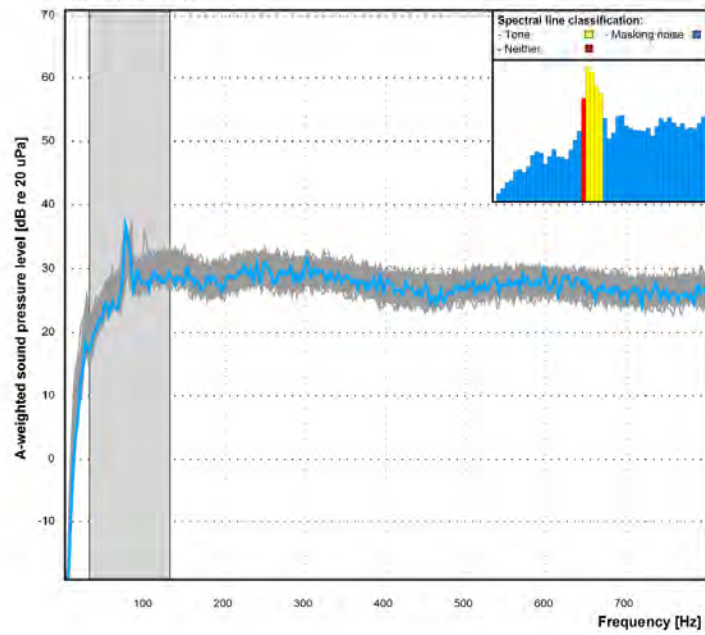
	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	1	1	87,0	-5,6





SWT 3.2 113

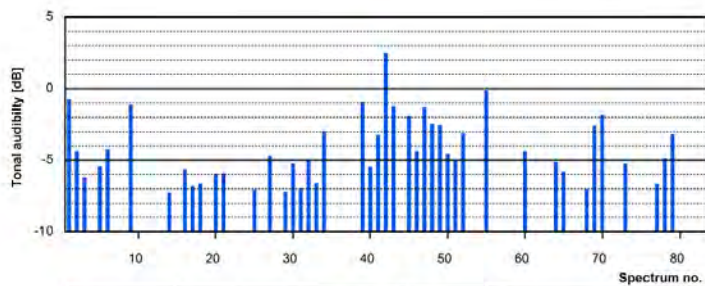
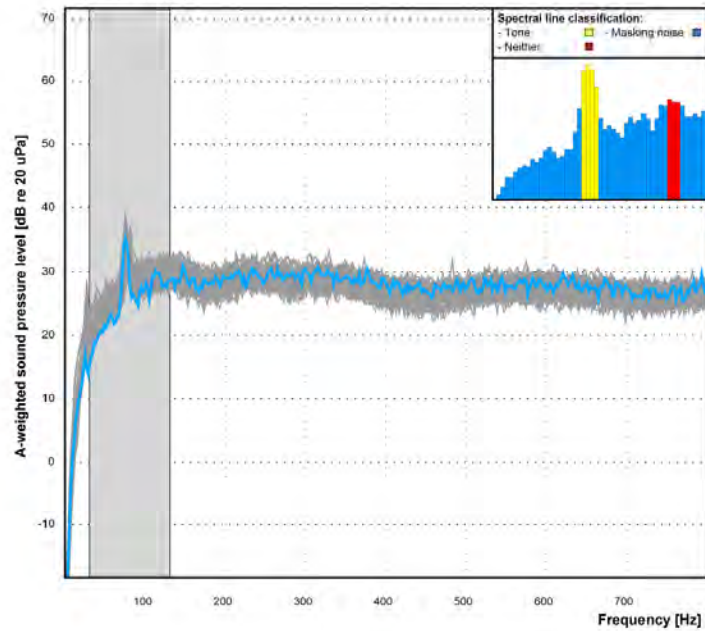
Tonality analysis according to IEC 61400, 3rd ed.
 Wind class: 10.5 [m/s]



	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	30	29	75,0	-0,2

SWT 3.2 113

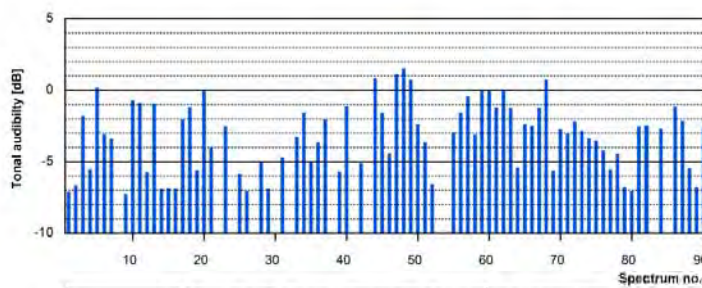
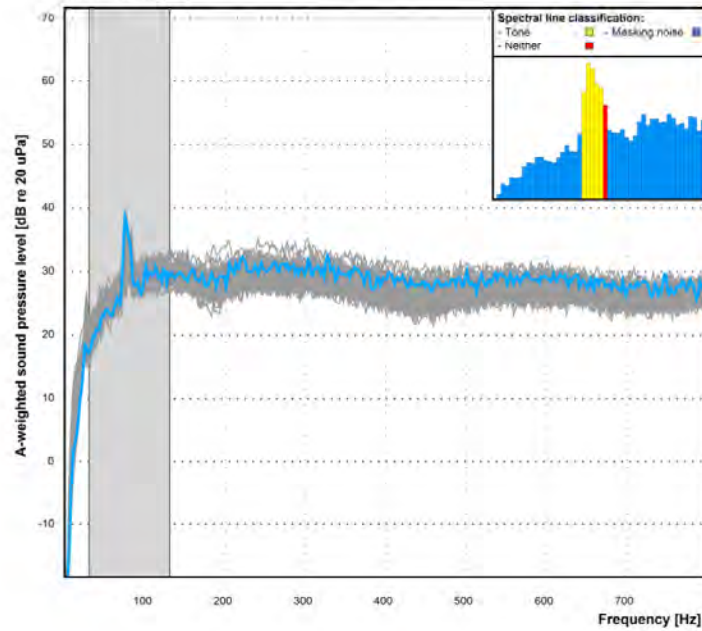
Tonality analysis according to IEC 61400, 3rd ed.
 Wind class: 11.0 [m/s]



	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	44	53	75,0	-0,1

SWT 3.2 113

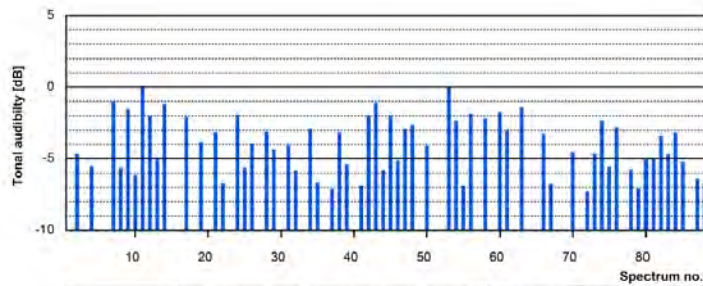
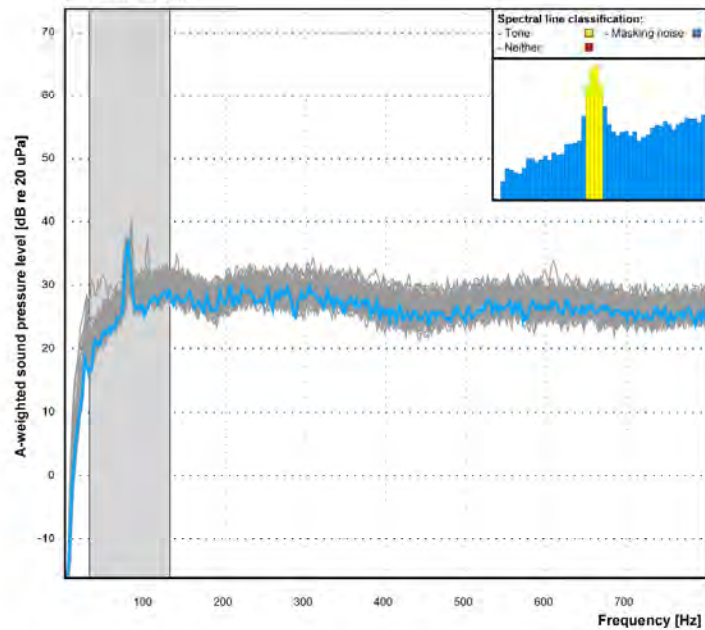
Tonality analysis according to IEC 61400, 3rd ed.
 Wind class 11.5 (m/s)



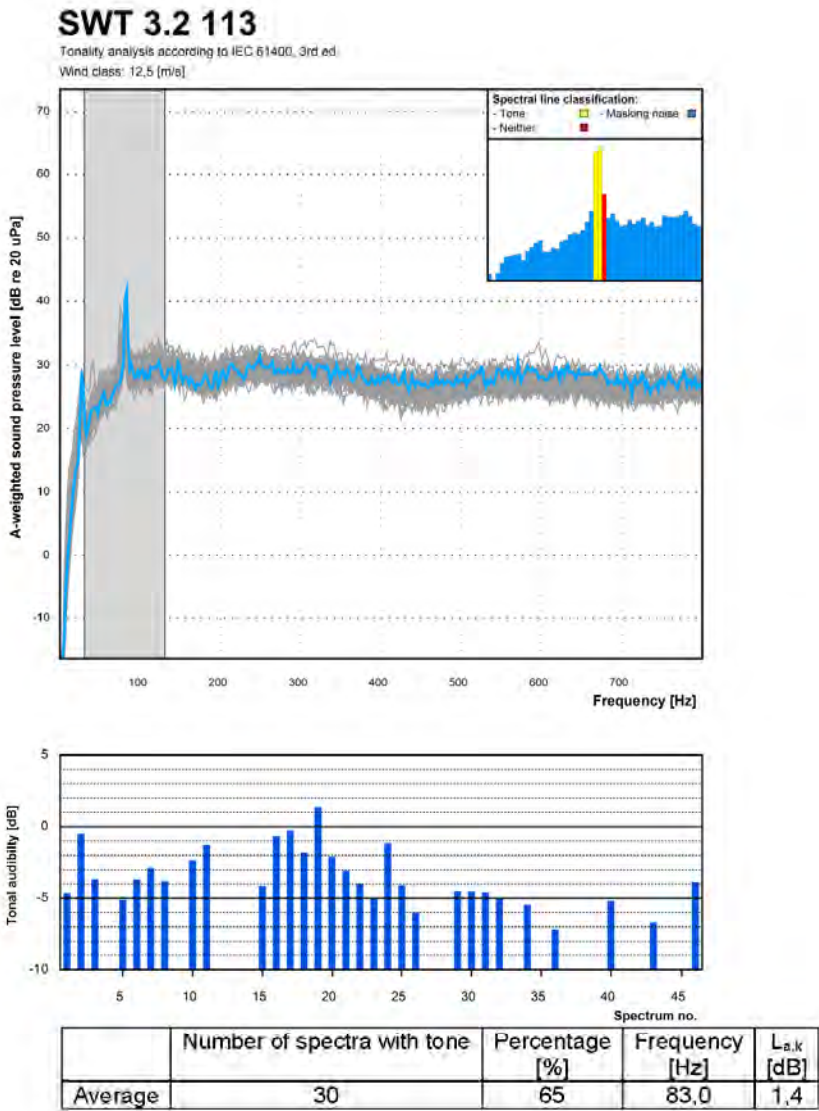
	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	77	86	75,0	1,5

SWT 3.2 113

Tonality analysis according to IEC 61400, 3rd ed.
 Wind class: 12.0 [m/s]

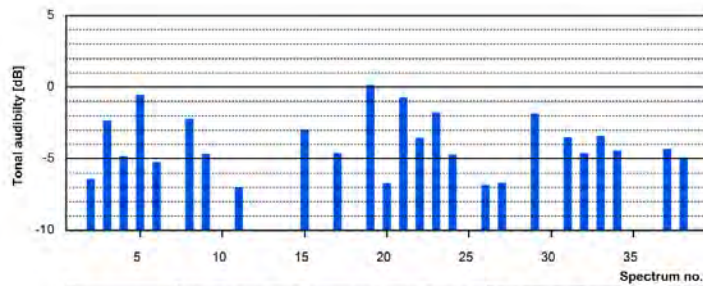
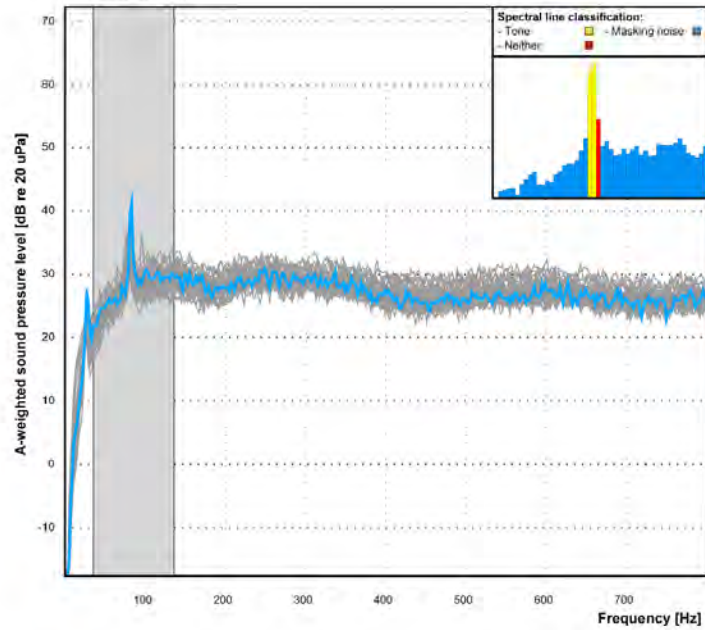


	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	61	69	79,0	0,1

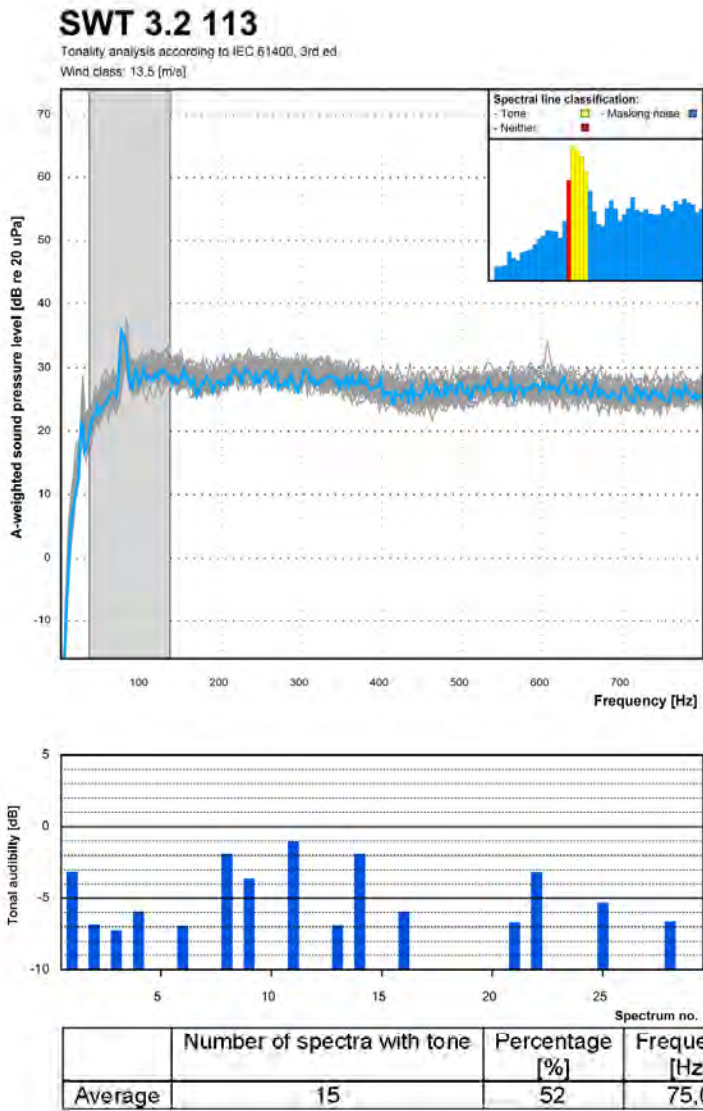


SWT 3.2 113

Tonality analysis according to IEC 61400, 3rd ed.
 Wind class: 13.0 [m/s]

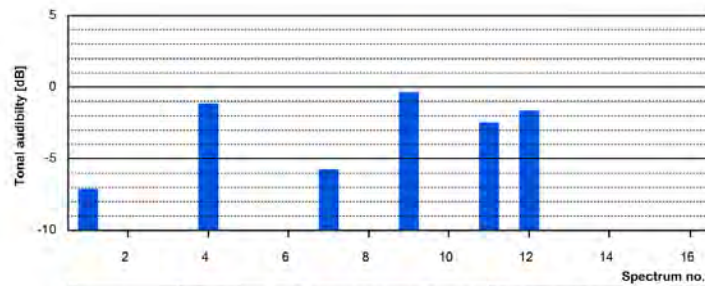
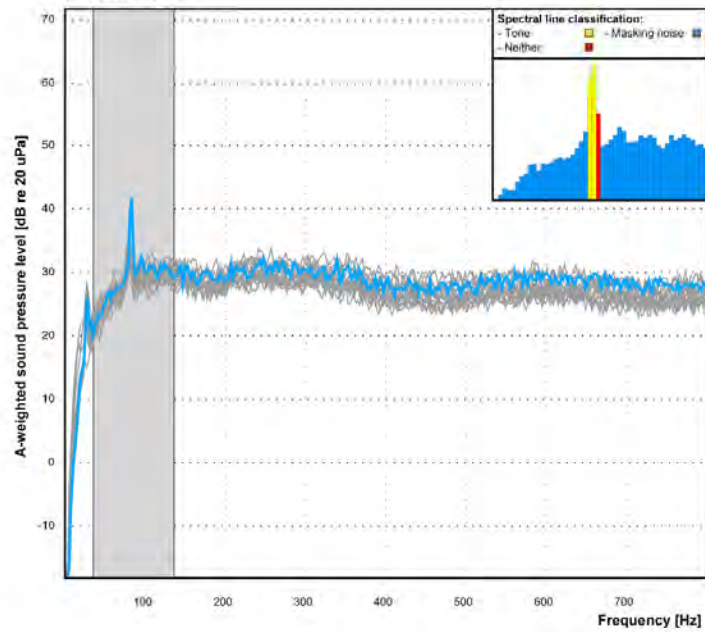


	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	25	64	83,0	0,2



SWT 3.2 113

Tonality analysis according to IEC 61400, 3rd ed.
 Wind class: 14.0 [m/s]



	Number of spectra with tone	Percentage [%]	Frequency [Hz]	$L_{a,k}$ [dB]
Average	6	38	83,0	-0,3

ENCLOSURE 3. MANUFACTURERS CERTIFICATE (3 PAGES)

Herstellerbescheinigung zu spezifischen Daten des Anlagentypes : SWT-3.2-113
Manufacturer's certificate on specific data on the type of installation: SWT-3.2-113

Datum / date: 2015.01.05

1. Allgemeines		General
Hersteller	Siemens Wind Power A/S	manufacturer
Anlagenbezeichnung	SWT-3.2-113	type name
Art (horizontale/vertikale Achse)	Horizontal	type (horizontal / vertical axis)
Nennleistung	3200 kW	rated power
Nabenhöhe über Grund	89,5 m	hub height above ground
Nabenhöhe über Fundamentflansch	89,5 m	hub height above top of foundation flange
Nennwindgeschwindigkeit	13 m/s	rated wind speed
Ein- und Ausschaltwindgeschwindigkeit	3/25 m/s	cut-in and cut-out wind speed
Nennspannung	660V	rated voltage
Nennstrom	3180A	rated current
Beitrag zum Kurzschlussstrom	5702A ¹ < 0.1s / 3485A ¹ > 1s	contribution to short circuit current
2. Rotor		Rotor
Durchmesser	113 m	diameter
Bestrichene Fläche	10028 m ²	swept area
Anzahl der Blätter	3	number of blades
Nabenart (pendelnd/starr)	Rigid	kind of hub (teetered/rigid)
Anordnung zum Turm (luv/lee)	Luv	relative position to tower (luv/lee)
Nenn Drehzahl / -bereich	10 rpm / 4-15 rpm	rated speed / speed range
Auslegungsschnellaufzahl	9.9	design tip speed ratio
Rotorblatteinstellwinkel	-2 to 82° Pitch controlled	rotor blade pitch setting
Konuswinkel	5°	cone angle
Achsneigung	0°	tilt angle
Abstand Rotorflanschmittelpunkt - Turmmittellinie	5m	distance between rotor flange centre and tower centre line
3. Blatt		Blade
Hersteller	Siemens Wind Power A/S	manufacturer
Typenbezeichnung	B55-01	type
Profil	SWPNA1 xxxxx, FFAW-xxxx, SWP_JLN xxxxx	blade profile
Material	SWP_B55-xxxx GRE	material
Länge	55 m	length
Profiltiefe max	4.2 m	chord length (max)
Zusatzkomponenten (z.B. stall strips, Vortex-Generatoren, Turbulatoren)	Vortex generator, DinoTails ® (DT4, DT5)	additional components (e.g. stall strips, vortex generators, trip strips)
Extenderlänge	N/A	extender length
4. Getriebe		Gear
Hersteller	N/A	manufacturer
Typenbezeichnung	N/A	type
Ausführung	N/A	design
Übersetzungsverhältnis	1 : 1	speed ratio
5. Generator		Generator
Hersteller	SIEMENS WIND POWER	manufacturer
Typenbezeichnung	DD22	type
Anzahl	1	numbers
Art	Synchronous PM	design
Nennleistung(en)	3.2- 3.4 MW	rated power (s)
Nennscheinleistung	4-4.3 MVA	rated apparent power
Nenn Drehzahlen oder Drehzahlbereich	14-16 rpm	rated speed (s)/ speed range
Spannung	750 V	voltage
Frequenz	13-14 Hz	frequency
Nennschlupf	N/A	rated slip
6. Turm		Tower
Hersteller	Titan Wind Energy	manufacturer
Typenbezeichnung	3.0-T89.5-05	type
Ausführung (Gitter/Rohr, zyl./kon.)	Tubular	design (lattice/tubular, cylindrical/ conical)
Material	S355	material
Länge	88 m	length

Note: Design values

MFC, SWT-3.2-113 PcRev0, Floe DK T2 R0003.doc

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Herstellerbescheinigung zu spezifischen Daten des Anlagentypes : SWT-3.2-113
Manufacturer's certificate on specific data on the type of installation: SWT-3.2-113

7. Windrichtungsnachführung		Yaw control
Ausführung (aktiv/Passiv)	Active	design (active/passive)
Antriebsart (el./mech./hydr.)	Electrical	drive (electr./mech./hydr.)
Dämpfungssystem während des Betriebes	Friction	damping system during operation
8. Betriebsführung/ Regelung		Other electric installations
Art der Leistungsregelung	Pitch control	kind of power control
Antrieb der Leistungsregelung	Blade pitch	actuation of power control
Hersteller der Betriebsführung/ Regelung	KK-electronic	manufacturer of control system
- Typenbezeichnung	SICS	- type
- Verwendete Steuerungskurve	SICS 123.2.0.2	- applied used control characteristics
9. Sonstige elektrische Komponenten		Other electric installations
Anzahl der Kompensationsstufen	Controlled by use of 4 quadrant frequency converter ___ kvar	number of compensation stages
Blindleistung Stufe 1	na	reactive power stage 1
Art der Netzkopplung	Connected by use of 4 quadrant frequency conv.	kind of interconnection
- Hersteller	SIEMENS AG	- manufacturer
- Typenbezeichnung	S1030AA1005	- type
-	Siemens AG	-
Netzschutzhersteller	8DJH DD-10	main protective manufacturer
- Typenbezeichnung		- type
- Einstellbereiche:	759 V line-line @ 1 sec	- adjustment ranges:
Spannungssteigerungsschutz	621 V line-line @ 200 sec.	overvoltage protection
Spannungsrückgangsschutz		undervoltage protection
Frequenzsteigerungsschutz	52 Hz @ 200msec	overfrequency protection
Frequenzrückgangsschutz	47 Hz @ 200msec	underfrequency protection
Typenbezeichnung der Abschalteinheit	Short circuit breaker	type of contact break device
Oberschwingungsfilter (Ja/Nein)	Yes	harmonic filter (yes/no)
(Oberschwingungsfilter müssen auf den Netzverknüpfungspunkt ausgelegt sein.)		(harmonic filter have to be designed for the point of common coupling)
10. Bremssystem		Brake system
Bremssystem (primär/sekundär)	Blade / Mech. brake	brake system (primary/secondary)
- Aktivierung	Hydraulic	- activation
- Anordnung	Hydraulic	- location
- Bremsenart	Pitch blade/ brake disc	- type
- Betätigung	Active / Passive	- actuation
11. Typenprüfung		Type test
Prüfbehörde	DNV	testing authority
Aktenzeichen	_____	reference

Herstellerbescheinigung zu spezifischen Daten des Anlagentypes : SWT-3.2-113
Manufacturer's certificate on specific data on the type of installation: SWT-3.2-113

12. Informativer Teil	Informative	
Standort der vermessenen WEA	FLOE, DK, T2	location of measured WTG
Koordinaten und Datum des Standorts	507848E, 6203354N	coordinates and datum of location
Seriennummern	UTM Z32N, WGS84	serial number of
- der WEA	3000364	- the WTG
- der Blätter	550423701	- the blades
	550425401	
	550423801	
- des Getriebes	n/a	- the gear
- des Generators	5750080	- the generator

Anschrift des Herstellers
Address of manufacturer

Siemens Wind Power A/S
Borupvej 16
7330 Brande
Denmark

SIEMENS

Siemens Wind Power A/S
Borupvej 16
DK-7330 Brande - Denmark
Tel. +45 99 42 22 22

 Stempel, Unterschrift
stamp, signature

Der Hersteller der Windenergieanlage bestätigt, dass die WEA, deren Schallemission, Leistungskurve und elektrischen Eigenschaften in den Prüfberichten abgebildet ist, hinsichtlich ihrer technischen Daten mit den o.g. Positionen identisch ist.
The manufacturer of the wind turbine generator system (WTGS) confirms that the WTGS whose noise level, power performance curve and power quality is measured and depicted in the test reports, is identical with the above entries with regard to its technical data.

APPENDIX F – COORDINATES OF TURBINES AND TRANSFORMERS

Coordinates of turbines considered in the Belle River Project are listed below in UTM17-NAD83 projection.

Turbine ID	Easting [m]	Northing [m]	Max Power [MW]	Broad-band PWL [dBA]
T8	360066	4680128	2.473	102
T11	359600	4679739	2.473	102
T12	360252	4678849	2.370	101
T13	360195	4678053	2.257	100
T14	359509	4677870	2.257	100
T15	360191	4677676	2.257	100
T16	361669	4679095	2.370	101
T19	361579	4679854	2.370	101
T20	361755	4680465	2.370	101
T26	363159	4679890	2.370	101
T28	364545	4680776	2.473	102
T29	364478	4679877	2.370	101
T30	362997	4680677	2.370	101
T34	364101	4677811	2.257	100
T35	364344	4677174	2.370	101
T36	365712	4677470	2.473	102
T37	365729	4677096	2.473	102
T38	365695	4677986	2.370	101
T40	365866	4679546	2.257	100
T41	365744	4679900	2.370	101
T44	367070	4679766	2.257	100
T45	367036	4679190	2.257	100
T46	367031	4678608	2.370	101
T47	367180	4678250	2.370	101
T48	368848	4678590	2.257	100
T49	368797	4679049	2.257	100
T50	360346	4679951	2.370	101
T51	361641	4680760	2.772	104
T52	370341	4680174	3.200	106
T53	363514	4679229	2.772	104

Turbine ID	Easting [m]	Northing [m]	Max Power [MW]	Broad-band PWL [dBA]
T54	364191	4677481	2.257	100
T55	367296	4680399	2.370	101
T57	370541	4678833	2.257	100
T58	369664	4678864	2.370	101
T59	369105	4678887	2.257	100
T62	360209	4679506	2.370	101
T200	357471	4680867	2.772	104
T201	357368	4680164	2.473	102
T202	354650	4680291	2.772	104
T204	357478	4681285	2.772	104
T205	356095	4680131	2.473	102
T206	357677	4677986	2.473	102
T210	354293	4680010	2.473	102
T211	354694	4679720	2.473	102
T212	354597	4679373	2.473	102
T213	354113	4679490	2.473	102
T214	354370	4679190	2.772	104
T215	355891	4678494	3.200	106
T219	357352	4677811	2.473	102
Transformer	364208	4678691	-	110.6

Coordinates of the Comber Wind Farm turbines are listed below in UTM17-NAD83 projection.

Turbine ID	Easting [m]	Northing [m]
Com1	379927	4679201
Com2	376175	4678164
Com3	377891	4678352
Com4	376885	4676930
Com5	377576	4676911
Com6	375992	4675741
Com7	376356	4675687
Com8	376685	4675621
Com9	377446	4676044
Com10	375733	4674336
Com11	376491	4673992
Com12	377150	4673997
Com13	377997	4674040
Com14	379551	4673749
Com15	375808	4672719
Com16	376623	4672887
Com17	377006	4672862
Com18	373301	4677886
Com19	374318	4678308
Com20	372799	4675862
Com21	374218	4676687
Com22	374991	4676957
Com23	373214	4674330
Com24	373684	4674268
Com25	374301	4674394
Com26	373298	4673200
Com27	373604	4673198
Com28	373948	4673157
Com29	372893	4671801
Com30	374390	4671647
Com31	372435	4670314
Com32	372894	4670269
Com33	369413	4677332
Com34	370717	4676284
Com35	369452	4674336
Com36	370311	4674696
Com37	369926	4673208
Com38	370872	4673270
Com39	368398	4672081
Com40	369995	4671678
Com41	368343	4670584

Turbine ID	Easting [m]	Northing [m]
Com42	369696	4670603
Com43	370111	4670632
Com44	370658	4670694
Com45	359594	4676568
Com46	359757	4676234
Com47	360052	4674436
Com48	361505	4677055
Com49	361364	4675428
Com50	362862	4676753
Com51	363438	4676702
Com52	362016	4675388
Com53	363146	4675314
Com54	366091	4674085
Com55	366816	4675164
Com56	367194	4675596
Com57	367475	4675193
Com58	367698	4676287
Com59	358783	4671598
Com60	360203	4672990
Com61	360025	4672159
Com62	360077	4671299
Com63	361568	4672287
Com64	361471	4671654
Com65	362735	4671934
Com66	362704	4671457
Com67	364162	4672915
Com68	365556	4672664
Com69	365433	4671607
Com70	367049	4672886
Com71	366912	4671667
Com72	366945	4671205
Comber Transformer East	371090	4675316
Comber Transformer West	371061	4675318

Coordinates of the Pointe-Aux-Roche Wind Farm turbines are listed below in UTM17-NAD83 projection.

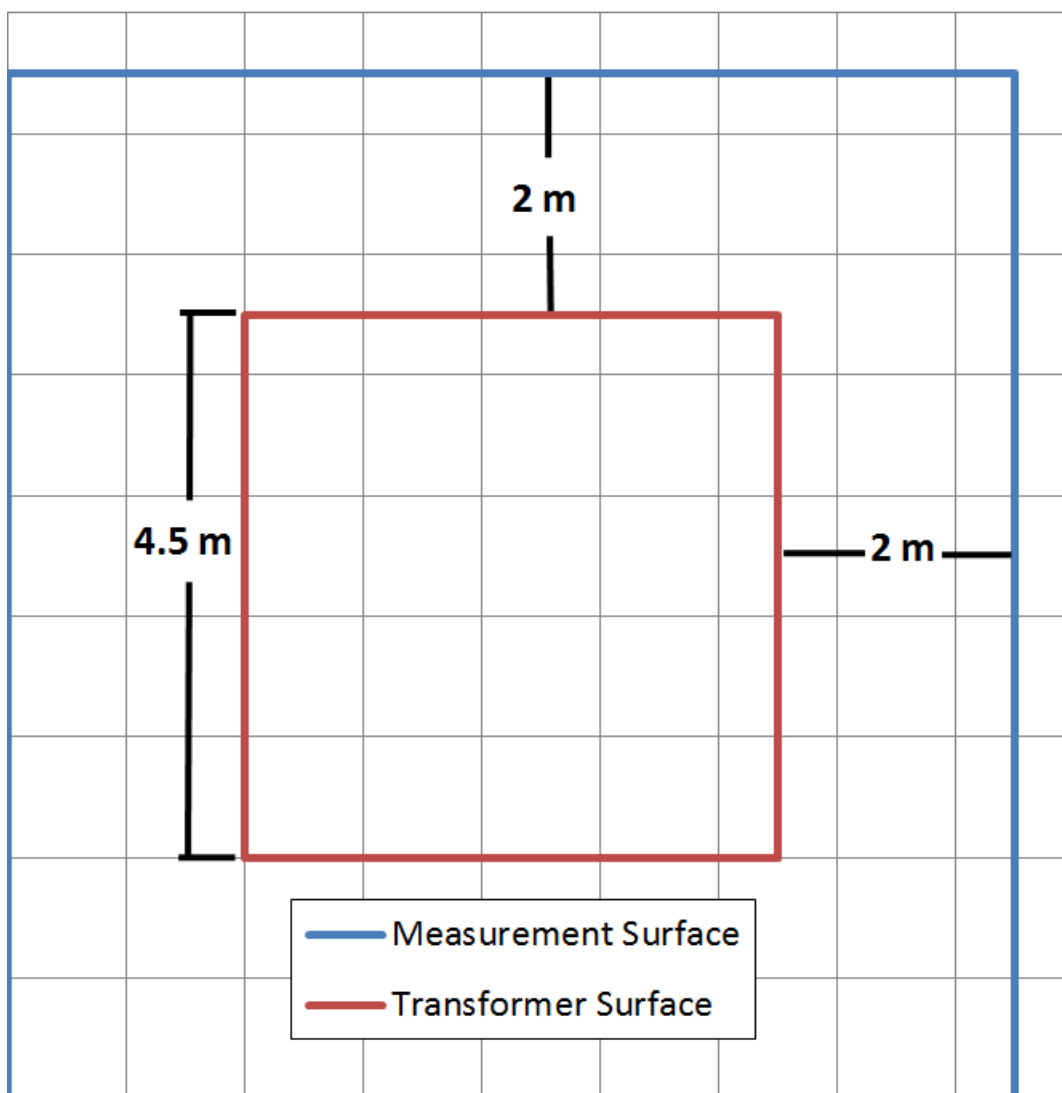
Turbine ID	Easting [m]	Northing [m]	Mode
PAR_T202	378954	4682255	V90 high power – 104.5 dB(A)
PAR_T203	379298	4682125	V90 high power – 104.5 dB(A)
PAR_T204	369268	4682578	V90 high power – 104.5 dB(A)
PAR_T205	378682	4683788	V90 high power – 104.5 dB(A)
PAR_T206	376863	4683716	V90 high power – 104.5 dB(A)
PAR_T209	373738	4682785	V90 high power – 104.5 dB(A)
PAR_T210	373971	4682468	V90 standard – 103.5 dB(A)
PAR_T211	374627	4682602	V90 high power – 104.5 dB(A)
PAR_T212	375221	4682446	V90 high power – 104.5 dB(A)
PAR_T213	372868	4681368	V90 high power – 104.5 dB(A)
PAR_T216	366394	4682177	V90 standard – 103.5 dB(A)
PAR_T217	371858	4682798	V90 high power – 104.5 dB(A)
PAR_T218	373055	4681143	V90 high power – 104.5 dB(A)
PAR_T219	374383	4681241	V90 high power – 104.5 dB(A)
PAR_T220	366463	4681787	V90 standard – 103.5 dB(A)
PAR_T223	367344	4682710	V90 high power – 104.5 dB(A)
PAR_T224	368107	4682657	V90 standard – 103.5 dB(A)
PAR_T225	367180	4681739	V90 high power – 104.5 dB(A)
PAR_T227	377775	4683873	V90 high power – 104.5 dB(A)
PAR_T228	379303	4683641	V90 high power – 104.5 dB(A)
PAR_T229	367711	4682018	V90 high power – 104.5 dB(A)
PAR_T230	370878	4681557	V90 high power – 104.5 dB(A)
PAR_T232	370494	4682598	V90 standard – 103.5 dB(A)
PAR_T233	367097	4682140	V90 high power – 104.5 dB(A)
PAR_T234	371236	4682790	V90 high power – 104.5 dB(A)
PAR_T235	373632	4681422	V90 standard – 103.5 dB(A)
PAR_T236	379920	4683881	V90 high power – 104.5 dB(A)
Transformer	359245	4681385	-

Coordinates of the Gracey Wind Farm turbines are listed below in UTM17-NAD83 projection.

Turbine ID	Easting [m]	Northing [m]
Gra1	376364	4680537
Gra2	376859	4681053
Gra3	377612	4681105
Gra4	376509	4681222
Gra5	377221	4681029



APPENDIX G – BELLE RIVER EXAMPLE TRANSFORMER DIAGRAM



Belle River transformer – diagram of sound measurement surface area, as per IEEE C57.12.90