

Attachment C
Noise Assessment Report

Big Bend Wind, LLC
Docket No. IP-7013/WS-19-619
October 2025

Noise Assessment Report

10/8/2025

Big Bend Wind

Big Bend Wind, LLC

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1.0 Introduction

Big Bend Wind is a proposed wind power project in Cottonwood and Watonwan Counties, Minnesota (“Project”). The Project includes up to 51 turbines for a total capacity of up to 311.1 MW.

Big Bend Wind, LLC (“Applicant”) filed a Site Permit Application with the Minnesota Public Utility Commission (“MN PUC”) in November 2020 (MN PUC Docket 19-619) to construct the Project. As part of the docket, the Applicant filed a Supplemental and Amended Site Permit Application in September 2021 that included a revised noise analysis¹ (“2021 Noise Assessment”) which concluded that the Project, with projected turbine-only sound levels of less than 47 dBA, would not significantly contribute to total sound levels in excess of 50 dBA. In September 2022, the MN PUC approved the Big Bend Wind Project. Since that approval, the Project has removed two turbine locations from the layout (for 51 total in this report) and updated the turbine models. Big Bend is no longer considering the Nordex N163 turbine model and the GE model is now a 6.1 MW turbine (no changes to the physical dimensions). Therefore, this noise assessment report provides updated sound propagation modeling using the revised turbine layout and turbine models and provides a comparison of the model results with the State sound level limits.

Based on the information provided in this report, the Project is expected to produce sound levels that are below the Minnesota Pollution Control Agency (“MPCA”) sound level limits.

This report includes:

- A description of the Project,
- A discussion of noise standards,
- A brief summary of background sound levels from the 2021 Noise Assessment,
- Sound propagation modeling procedure and results, and
- Conclusions

In addition, an introduction to acoustics is provided in Appendix A, supporting information is provided in Appendices B through F, including information about Paxwood Acoustics in Appendix E and a quick reference to the background sound level monitoring from the 2021 Noise Assessment in Appendix F.

¹ RSG, *Big Bend Wind Project Revised Noise Assessment*, September 2021, Big Bend Wind, LLC.

2.0 Project Description

The Project includes up to 51 turbines for a total capacity of up to 311.1 MW in Cottonwood and Watonwan Counties. The two turbine models under consideration are the GE 6.1-158 (GE 158) with a hub height of 117 meters and the Vestas V162-6.0 MW (V162) with a hub height of 119 meters. The blades of the GE 158 have Low-Noise Trailing Edges, and the V162 has serrated trailing edges, both of which reduce the overall sound emissions from the turbines.

A map showing the turbine layout and the surrounding area is provided in Figure 1. There are nine proposed turbine locations in Watonwan County to the east, and 42 proposed turbine locations in Cottonwood County to the west.

As shown in Figure 1, the Project area is north of MN Route 60 (MN-60) and south of MN Route 30 (MN-30). Nearby cities include Mountain Lake and Butterfield which are along MN-60 to the south and Darfur which is on MN-30 to the northeast. The primary land use around the Project area is agricultural with some rural residences, and the terrain is relatively flat.

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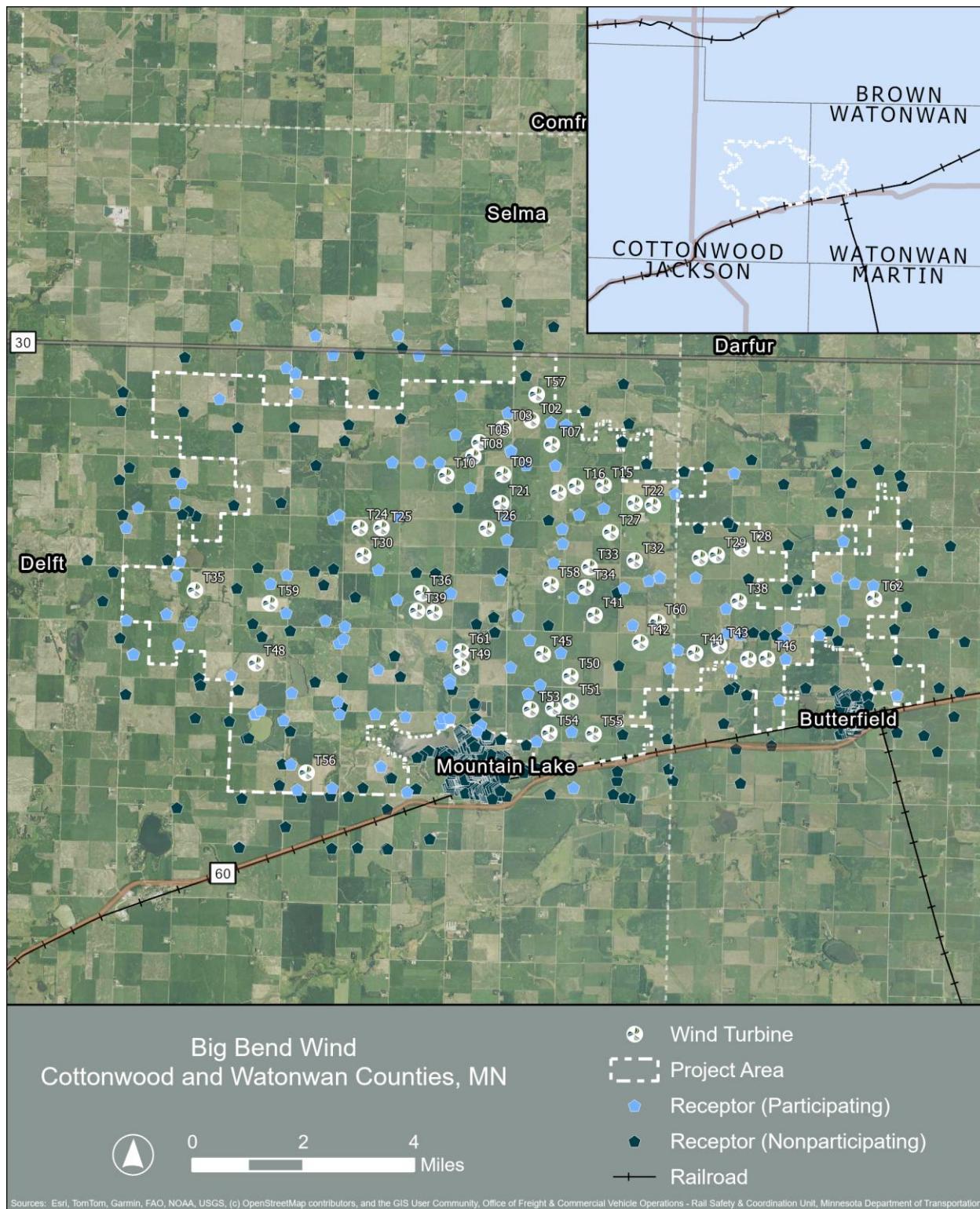


Figure 1: Map of the Project and Surrounding Area

3.0 Noise Standards

3.1 Local Standards

As discussed in the 2021 Noise Assessment, both Watonwan and Cottonwood Counties have zoning ordinances that speak to wind power development and both ordinances point to the established MPCA limits to regulate noise.

3.2 State Standards

In April 2025, the MN PUC published draft application guidance² that applies to large energy infrastructure projects (“Guidance”). The document points to the MPCA limits that are described further below as the sound level limits that are applicable to wind power projects such as Big Bend Wind. Section 3.7.6 of the Guidance says that,

Noise standards are public health standards. They protect people from noise generated by all sources at a specific time and place. The total sum of noise at a specific time and location cannot exceed the standards. The MPCA evaluates whether a specific noise source is in violation by determining if the source causes or significantly contributes to a violation of the standards.

Section 5.11 of the Guidance recommends that pre-construction sound propagation modeling be conducted to assess potential noise impacts.

MPCA Limits

The MPCA noise standards are codified in Minnesota Rules Chapter 7030. The sound level limits are specifically listed in MN Rules Part 7030.0040, which limits daytime and nighttime sound levels (L_{50} and L_{10}) by Noise Area Classification (NAC). These limits are reproduced in Table 1 below.

Table 1: MPCA Noise Limits from MN Rules Part 7030.0040

| Noise Area Classification | Daytime Limit (dBA) | | Nighttime Limit (dBA) | |
|---------------------------|---------------------|----------|-----------------------|----------|
| | L_{50} | L_{10} | L_{50} | L_{10} |
| 1 | 60 | 65 | 50 | 55 |
| 2 | 65 | 70 | 65 | 70 |
| 3 | 75 | 80 | 75 | 80 |

² MN PUC, *Draft Application Guidance for Large Energy Infrastructure Facilities in Minnesota*, April 2025.

As shown in Table 1, the most stringent limit is the nighttime L_{50} limit of 50 dBA at NAC 1 receptors. Residences are included in NAC 1. Daytime is defined in the rules as 7 AM to 10 PM and nighttime is 10 PM to 7 AM. Lastly, the definitions in MN Rules Part 7030.0020, indicate that the L_{50} and L_{10} are over a one-hour period.

These are the same limits to which the Project was evaluated in the 2021 Noise Assessment.

4.0 Background Sound Levels

Background sound level monitoring was completed for the 2021 Noise Assessment. Section 5 of the 2021 Noise Assessment by RSG is provided as Appendix F to this report for quick reference to that section of this public document. It provides details of the monitoring campaign including the procedures and equipment that were used, how the data was processed, where monitoring took place, and the detailed monitoring results for each location. A brief summary of the most relevant aspects of the monitoring is provided in this section.

The background sound level monitoring was conducted in November of 2019 over a period of approximately nine days at five monitor locations (identified as Monitors 1 through 5) spread throughout the Project area. A summary of the locations, common sources of sound, and the daytime and nighttime L_{50} are provided in Table 2.

Overall, background sound levels were similar across the Project area with slightly higher overall nighttime sound levels (L_{50}) at the southern monitors (Monitors 4 and 5), although there was some agricultural activity near Monitors 1 and 2 that caused sound levels (L_{50}) to exceed 50 dBA for a few hours over the nine-day monitoring period. Outside of this, nighttime sound levels were consistently below 50 dBA with an average nighttime L_{50} over the monitoring period of 33 dBA across the Project area. The monitoring indicated that at night background sound levels were largely driven by natural sounds with no particular or consistent localized anthropogenic noise that would be regularly additive to the proposed Project.

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Table 2: Summary of Background Sound Level Monitoring from the 2021 Noise Assessment

| Monitor | Location | Common Sound Sources | Sound Level (L50, dBA) |
|---------|---|---|--|
| 1 | Northwest corner of Project area, Edge of a field, 250 ft east of County Rd. 9, 1,360 ft south of 310 th St. | Biogenic sounds Wind through trees Occasional vehicle passbys, aircraft, & farm equipment | Daytime: 36 Nighttime: 32 Max. 1-hr at night: 60 Min. 1-hr at night: 21 |
| 2 | Northern section of Project area, Near a farm residence, 115 ft south of 310 th St, 300 ft west of County Rd. 1. | Biogenic sounds Wind through trees Vehicle passbys Local & distant farm equipment Occasional aircraft | Daytime: 40 Nighttime: 31 Max. 1-hr at night: 58 Min. 1-hr at night: 20 |
| 3 | More central to the Project area, Near a farm residence, 150 ft west of County Rd. 49, 545 ft north of 330 th St. | Biogenic sounds Wind through trees Distant train horn & farm equipment Occasional vehicle passbys & aircraft | Daytime: 36 Nighttime: 31 Max. 1-hr at night: 49 Min. 1-hr at night: 20 |
| 4 | Southern section of Project area, Near a farm residence, 460 ft south of 360 th St, 2,200 ft east of County Rd. 1. | Biogenic sounds Local farm equipment Distant traffic & trains Occasional vehicle passbys & aircraft | Daytime: 40 Nighttime: 36 Max. 1-hr at night: 47 Min. 1-hr at night: 23 |
| 5 | Southeast corner of Project area, Agricultural outbuilding parcel outside of Butterfield. ~0.5 mi west of 650 th Ave, 0.75 mi north of Township Rd. 105 ~0.5 mi east of a water treatment facility | Biogenic sounds Wind through trees Distant traffic, trains, & mechanical equip. Occasional aircraft | Daytime: 39 Nighttime: 36 Max. 1-hr at night: 44 Min. 1-hr at night: 28 |

5.0 Sound Propagation Modeling

5.1 Modeling Procedure & Settings

Sound propagation modeling was completed using the modeling software CadnaA made by DataKustik GmbH. CadnaA implements the international sound propagation standard, ISO 9613-2 “Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation.” Both CadnaA and the ISO 9613-2 standard are used by noise control professionals across the United States and are regularly relied upon by local and state jurisdictions. The model takes into account source sound emissions, topography, receptor locations, and several other factors. It calculates sound levels for meteorological conditions that are favorable for sound propagation, assuming that all receptors are downwind of the sound sources.

The modeling conducted for this report followed the ANSI/ACP wind turbine sound modeling standard³ including a +2 dB factor added to the turbine sound power level and using a ground factor of G=0.5.

For this assessment, USGS terrain data was used for the Project to create the three-dimensional topography throughout the surrounding area. Other site features, including the proposed locations of equipment and nearby receptors, were provided by the Applicant.

Model input data and parameters are provided in Appendix B.

The model was used to calculate sound pressure levels throughout the area at a grid of receptors that were spaced every 50 feet (15.24 meters) while each turbine was operating at its highest rated sound power level. Each receptor was modeled at 13 feet (4 meters) above ground level. Based on the grid of receptors, sound level iso-lines are generated throughout the area so that the projected sound levels can be shown throughout the surrounding area. In addition to the grid of receptors used to generate sound level iso-lines, discrete receptors were modeled at 973 residences near the Project, many of which are in Mountain Lake or Butterfield.

Modeling was completed for the two turbine models under consideration, the GE 158 and the V162, both using the same 51 turbine layout. One turbine, T34, was modeled using noise reduced operations (NRO) for the GE 158 scenario.

³ ANSI/ACP Standard 111-1, *Wind Turbine Sound Modeling*, American National Standards Institute, 2022.

5.2 Model Results

Model results for each turbine model are provided in map format in Appendix C and tabular format for each discrete receptor in Appendix D. For both turbine models, turbine-only sound levels are projected to be 47 dBA or less at all participating receptors and 45 dBA or less at all nonparticipating receptors. When summed with background sound levels, the total projected sound levels (L_{50}) should consistently be 50 dBA or less except for infrequent periods when background itself is at or above 50 dBA.

A summary of the results similar to how they were reported in the 2021 Noise Assessment is provided below in Table 3. The rows in Table 3 that are indicated as “Total” sound are the projected turbine only levels summed with the overall sitewide nighttime L_{50} of 33 dBA. For any given hour, the hourly L_{50} may be higher or lower than the “Total” sound in Table 3 depending on the background for that given hour.

Table 3: Summary of Model Results (dBA)

| Turbine Model | Sound Source | Statistical L_{50} Metric ⁴ | Residence Classification | | |
|---------------|------------------------------|--|--------------------------|--------------------------|------------------------------|
| | | | All Residences | Participating Residences | Non-Participating Residences |
| GE 158 | Turbine-only | Avg | 33 | 38 | 33 |
| | | Max | 47 | 47 | 44 |
| | | Min | 17 | 20 | 17 |
| | Total (Background + Project) | Avg | 36 | 40 | 36 |
| | | Max | 47 | 47 | 44 |
| | | Min | 33 | 33 | 33 |
| V162 | Turbine-only | Avg | 31 | 36 | 31 |
| | | Max | 44 | 44 | 41 |
| | | Min | 16 | 19 | 16 |
| | Total (Background + Project) | Avg | 35 | 38 | 35 |
| | | Max | 45 | 45 | 42 |
| | | Min | 33 | 33 | 33 |

⁴ As noted in the 2021 Noise Assessment, the average L_{50} across all receptors is meant to convey the overall potential impact across the Project area so that the results of the different turbine models can be easily compared. The maximum L_{50} represents the results highest projected sound level at receptors while the minimum L_{50} represents the lowest projected sound level at receptors.

6.0 Conclusions

Paxwood Acoustics conducted sound propagation modeling for Big Bend Wind which is an update to the modeling that was provided in the 2021 Noise Assessment. No additional monitoring was conducted for this noise assessment, but the background sound levels from the 2021 Noise Assessment are summarized in Section 4.0 and detailed in Appendix F.

The turbine models currently under consideration and evaluated in this report are the GE 158 and the V162, which use low noise trailing edge and serrated trailing edge technology respectively, to reduce overall sound emissions from the turbines. The turbine layout includes 51 turbine locations, which are the same locations for both turbine models.

Sound propagation modeling was completed using the ANSI/ACP wind turbine sound modeling standard³ including a +2 dB factor added to the turbine sound power level and using a ground factor of G=0.5. As discussed in Section 5.2 and detailed in Appendix C and D, the projected turbine-only sound levels are 47 dBA or less at all participating receptors and 45 dBA or less at all nonparticipating receptors. When summed with background sound levels, the total projected sound levels (L_{50}) should consistently be 50 dBA or less except for infrequent periods when background itself is at or above 50 dBA.

Given this, Big Bend Wind is expected to produce sound levels that are below the MPCA noise limits and are not expected to significantly contribute to total sound levels above 50 dBA, the lowest nighttime MPCA limit.

Appendix A: Introduction to Acoustics

Sound, Sources, and Perception

Sound in air is caused by fluctuations in air pressure which can be due to a variety of sources. The sources of sound can generally be grouped into three major categories: anthropogenic, biogenic, and geophonic. Anthropogenic sounds are human caused sounds such as voices, instruments, vehicles, and mechanical and electrical equipment. Biogenic sounds are those that are caused by organisms such as animal calls or animal interaction with the environment. And lastly geophonic sounds are those caused by the environment itself such as waves hitting a shoreline or wind interacting with plants or other objects.

There are three primary characteristics of sound that affect human perception: frequency which may also be referred to as pitch or tone, amplitude which relates to perceived loudness or volume, and temporal fluctuations, which is to say that sound can change with time.

Frequency

Humans can hear sound over a range of frequencies typically from 20 Hz to 20,000 Hz. While not strictly defined, this range can be divided into three subranges which are described as low frequency (20 Hz to around 250 Hz), mid frequency (around 250 Hz to around 4,000 Hz), and high frequency (around 4,000 Hz to 20,000 Hz). The mid frequency range is where most human speech occurs. More defined ranges of frequency are divided into octave bands (31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, and 16 kHz), or even further into 1/3 octave bands which are three smaller bands within each octave band. Sound below 20 Hz is referred to as infrasound and is not typically audible to the human ear. Sound above 20,000 Hz is referred to as ultrasound and is also not audible to the human ear.

Most sounds are broadband in nature and contain energy at a range of frequencies. If however, a sound contains notably more energy at a specific frequency compared to the adjacent frequencies, then the sound can be perceived as a tone, such as a note in music.

Amplitude

Humans can hear sound over a wide range of pressures, from approximately 20 micropascals to over 20 million micropascals. Sound can occur outside of this range, but below 20 micropascals is typically inaudible to humans and above 20 million micropascal can cause pain. In acoustics, this wide range of audible sound pressures is compressed using a logarithmic scale to create a range of sound pressure levels from 0 dB (20

micropascals) to 120 dB (20 million micropascals). It is in this logarithmic scale, denoted as decibel or dB, that acousticians and environmental regulations quantify the amplitude of sound.

Temporal Changes

Both frequency and amplitude can change with time. A sound may be constant in both frequency and level, but this is fairly uncommon. If one considers the fluctuation in sounds from people having conversations, birds chirping, or vehicles passing by, it becomes apparent how much sound can change from one instance to the next. It is for this reason that acousticians use a variety of metrics to define and describe sound. These metrics are discussed further below.

Weighting Networks, Sound Pressure Level, and Metrics

Weighting Networks

Humans are most sensitive to sound between 500 Hz and 5 kHz. Our sensitivity with sound decreases below 500 Hz and above 5 kHz. In order to account for this varying sensitivity, the A-weighting network or filter was developed to mimic the sensitivity of the human ear and how we perceive loudness. A-weighting discounts sound in varying degrees by frequency below 500 Hz and above 5,000 Hz. Between 1,000 Hz and 4,000 Hz, the A-weighting network amplifies sound slightly to account for the increased sensitivity of the human ear in that range. Since the A-weighting network accounts for human sensitivity at different frequencies, it is widely used in environmental acoustics and most environmental regulations. When a sound level is A-weighted, an “A” is typically added to the end of the abbreviation for decibel: dBA.

There are other weighting networks with different purposes, such as C, G, or Z, but A-weighting is most used in environmental acoustics. If a sound is not weighted or sometimes referred to as unweighted, it is considered Z-weighted or dBZ.

Sound Pressure Level

As was discussed previously, in acoustics, the amplitude of sound is often referred to in terms of sound pressure level. Representative sound pressure levels of some common sound sources and environments are shown in Figure 2. The sound levels presented in Figure 2 are meant to be illustrative, so any specific source or environment may be similar to or fall outside of the ranges shown in the graphic.

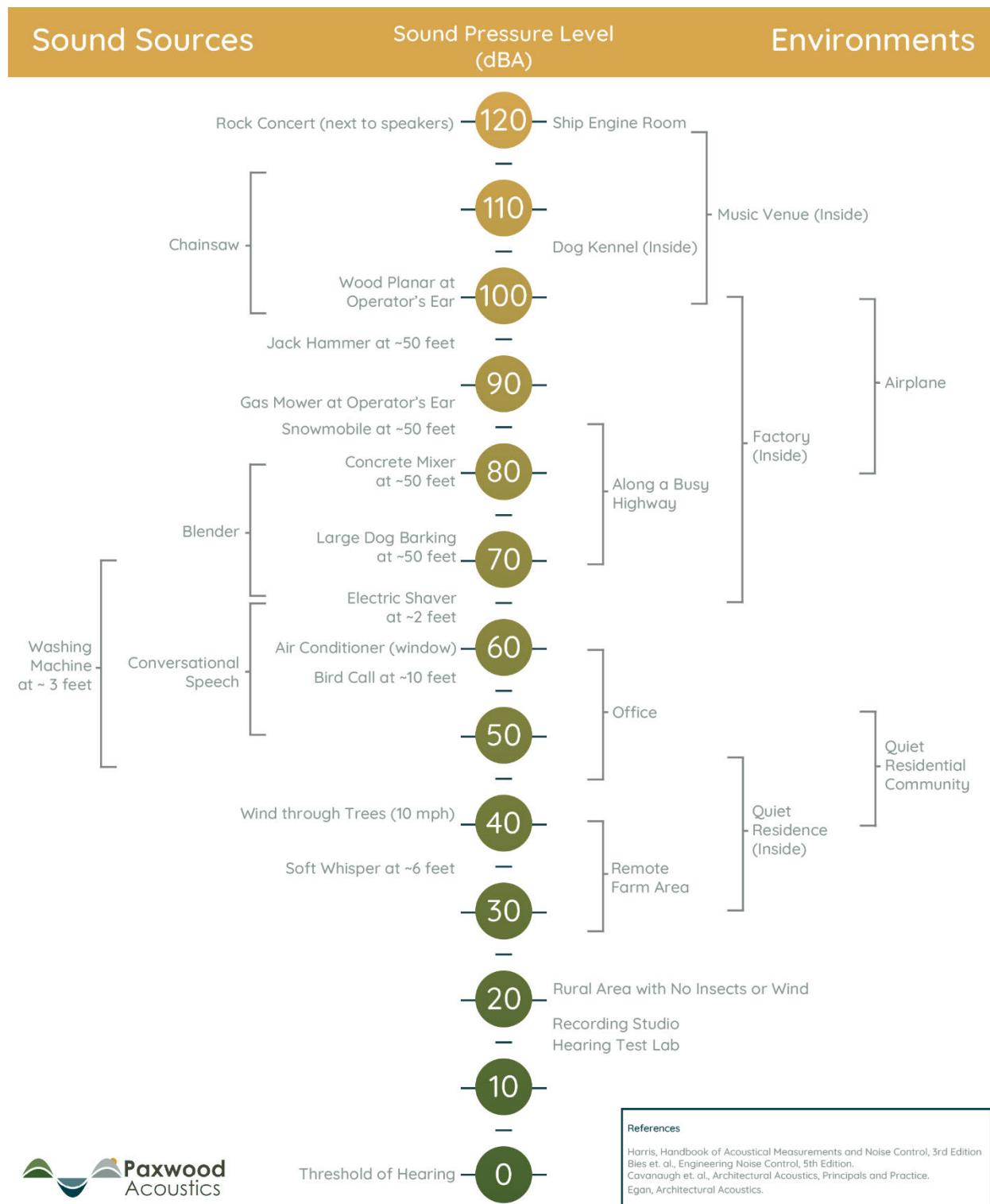


Figure 2: Representative Sound Pressure Levels (dBA) of Common Sound Sources & Environments

Since sound is a logarithmic function, one cannot use regular arithmetic operations to add and subtract sound levels. So, for example, conversational speech typically occurs at a level between 55 dBA and 65 dBA. If one person is speaking at a level of 60 dBA and another person is also speaking at a level of 60 dBA, the total sound level is not 120 dBA. (And a good thing too, otherwise, two people talking at the same time would quickly approach the threshold of pain, 120 dBA.) Instead, two voices at the same level only causes an increase of 3 dB, so 60 dBA plus 60 dBA equals 63 dBA. To illustrate this further, Table 4 provides a general guide on how two sound levels sum together.

Table 4: Guide to Sound Level Summation

| If the difference between two sound levels is: | Add the following value to the greater of the two sound levels: |
|--|---|
| 0 or 1 dB | 3 dB |
| 2 or 3 dB | 2 dB |
| 4 or 9 dB | 1 dB |
| 10 dB or more | 0 dB |

Note: For the precise calculation - $Lp_{total} = 10 \times \log_{10} \left(10^{Lp1/10} + 10^{Lp2/10} \right)$

In terms of perception of sound level there are two helpful rules of thumb to be aware of: 1) A change in broadband sound level of 10 dB is perceived as a halving or doubling of loudness, depending on if the amplitude of the sound decreased or increased, and 2) Changes in sound level of less than 3 dB are generally considered not perceptible.

Sound Level Metrics

With sound levels in an environment continuously changing, different sound level metrics are used to describe the sound level versus time. Some common sound level metrics are briefly described below:

- Equivalent Continuous Sound Level (L_{eq}): The L_{eq} is the level of the average sound pressure over a specified period of time. It takes into account quieter, long-term sound levels along with louder, short-duration sound levels to provide an overall sound level for a given time period. The louder sound levels, even with a short-duration, can have a strong influence on the L_{eq} . The L_{eq} is often used in environmental acoustics to convey an average representation of the acoustical environment, even though it is influenced more strongly by higher sound levels that occur over the specified interval. An L_{eq} may be as short as 1-second or up to an hour or more depending on the purpose of the quantification.
- Statistical Sound Levels (L_n): Statistical sound levels or percentile sound levels describe the level that is exceeded for a specified percentage of time. The L_{10} , for example, is the level that is exceeded 10% of the time. The L_{50} , is the median sound

level: half the time the sound level is above the L_{50} and half the time the sound level is below the L_{50} . And the L_{90} is the sound level that is exceeded 90% of the time.

- Maximum Sound Level (L_{\max}): The phrase “maximum sound level” may be used to describe the maximum L_{eq} or L_n over a given time period, but it can also be used to describe the sound level over a very short-duration typically using either a 1-second time constant which is referred to as slow-response, or a 125-millisecond time constant which is referred to as a fast-response. If the L_{\max} metric is being used, it is good practice to note which time constant is being applied by adding the notation S or F to the abbreviation: $L_{S\max}$ or $L_{F\max}$. The most appropriate time constant to use depends on the specific context of the quantification.
- Day-Night Level (L_{dn}): The L_{dn} is similar to the L_{eq} except that it is specifically applied over an entire day or 24-hour period with a 10 dB penalty applied to sound levels between 10 PM and 7 AM to account for greater sensitivity at night.

Appendix B: Model Settings & Input

Table 5: Sound Propagation Model Settings

| Model Parameter | Setting |
|-------------------------|---|
| Ground Attenuation | ISO 9613-2 spectral ground attenuation with a ground factor of 0.5 in accordance with ANSI/ACP Standard 111-1. ³ |
| Topography | USGS terrain. |
| Foliage Attenuation | No attenuation due to forest was taken into account in the model. |
| Atmospheric Attenuation | Based on 70% relative humidity and 10° C. |
| Search Radius | 5 miles (8,000 meters). |
| Receptor Grid | 50 feet by 50 feet (15 meters by 15 meters) throughout the Project and surrounding area at a height of 13 feet (4 meters). |

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Table 6: Turbine Model Input Data

| Turbine ID | Modeled Sound Power Level ⁵ (dBA) | | Coordinates (UTM NAD83 Z15N) | | Elevation (ground + hub height, m) |
|------------|--|-------------|------------------------------|---------|------------------------------------|
| | V162 STE | GE 158 LNTE | X (m) | Y (m) | |
| T02 | | | 346729 | 4877324 | 481 |
| T03 | | | 345911 | 4877090 | 480 |
| T05 | | | 345221 | 4876669 | 483 |
| T07 | | | 347323 | 4876612 | 483 |
| T08 | | | 345043 | 4876264 | 486 |
| T09 | | | 345902 | 4875743 | 487 |
| T10 | | | 344250 | 4875708 | 493 |
| T15 | | | 348824 | 4875428 | 488 |
| T16 | | | 348018 | 4875400 | 485 |
| T17 | | | 347509 | 4875218 | 485 |
| T21 | | | 345844 | 4874904 | 492 |
| T22 | | | 349722 | 4874905 | 486 |
| T23 | | | 350249 | 4874851 | 488 |
| T24 | | | 341741 | 4874190 | 516 |
| T25 | | | 342373 | 4874189 | 516 |
| T26 | | | 345434 | 4874179 | 501 |
| T27 | | | 349033 | 4874066 | 487 |
| T28 | | | 352839 | 4873599 | 482 |

⁵ The sound power level data for the turbines in Table 6 includes the +2 dB factor per ANSI/ACP Standard 111-1. The sound power level spectral data in Table 7 does not include the +2 dB factor as it is meant to show the sound power data from the turbine manufacturer.

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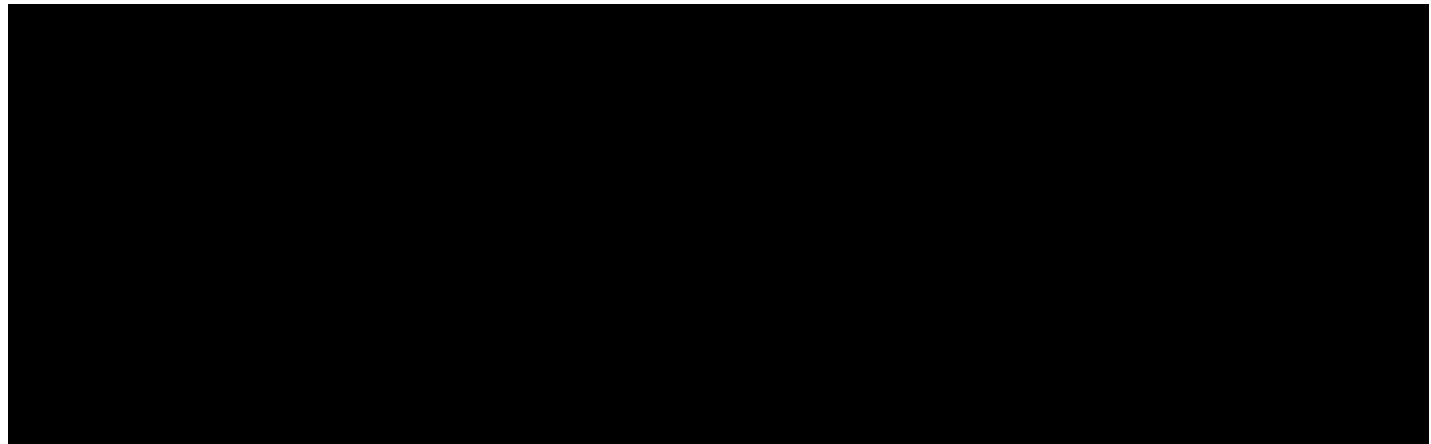
| Turbine ID | Modeled Sound Power Level ⁵ (dBA) | | Coordinates (UTM NAD83 Z15N) | | Elevation (ground + hub height, m) |
|------------|--|-------------|------------------------------|---------|------------------------------------|
| | V162 STE | GE 158 LNTE | X (m) | Y (m) | |
| T29 | | | 352113 | 4873404 | 486 |
| T30 | | | 341851 | 4873394 | 517 |
| T31 | | | 351626 | 4873322 | 489 |
| T32 | | | 349729 | 4873239 | 487 |
| T33 | | | 348416 | 4873060 | 491 |
| T34 | | | 348311 | 4872465 | 493 |
| T35 | | | 336961 | 4872386 | 544 |
| T36 | | | 343555 | 4872300 | 515 |
| T38 | | | 352748 | 4872065 | 482 |
| T39 | | | 343407 | 4871792 | 514 |
| T40 | | | 343897 | 4871741 | 514 |
| T41 | | | 348562 | 4871656 | 498 |
| T42 | | | 349885 | 4870869 | 493 |
| T43 | | | 352181 | 4870785 | 481 |
| T44 | | | 351475 | 4870559 | 488 |
| T45 | | | 347063 | 4870535 | 505 |
| T46 | | | 353566 | 4870395 | 481 |
| T47 | | | 353028 | 4870392 | 486 |
| T48 | | | 338730 | 4870264 | 526 |
| T49 | | | 344694 | 4870150 | 508 |
| T50 | | | 347864 | 4869894 | 502 |
| T51 | | | 347860 | 4869166 | 506 |
| T52 | | | 347362 | 4868961 | 508 |
| T53 | | | 346709 | 4868926 | 509 |
| T54 | | | 347246 | 4868233 | 508 |
| T55 | | | 348530 | 4868218 | 505 |
| T56 | | | 340194 | 4867083 | 533 |
| T57 | | | 346880 | 4878068 | 479 |
| T58 | | | 347287 | 4872540 | 499 |
| T59 | | | 339133 | 4872002 | 521 |
| T60 | | | 350379 | 4871461 | 489 |
| T61 | | | 344687 | 4870606 | 501 |
| T62 | | | 356677 | 4872141 | 463 |

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Table 7: Turbine Sound Power Level (dBA) by Octave Band Center Frequency



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Appendix C: Model Result Maps

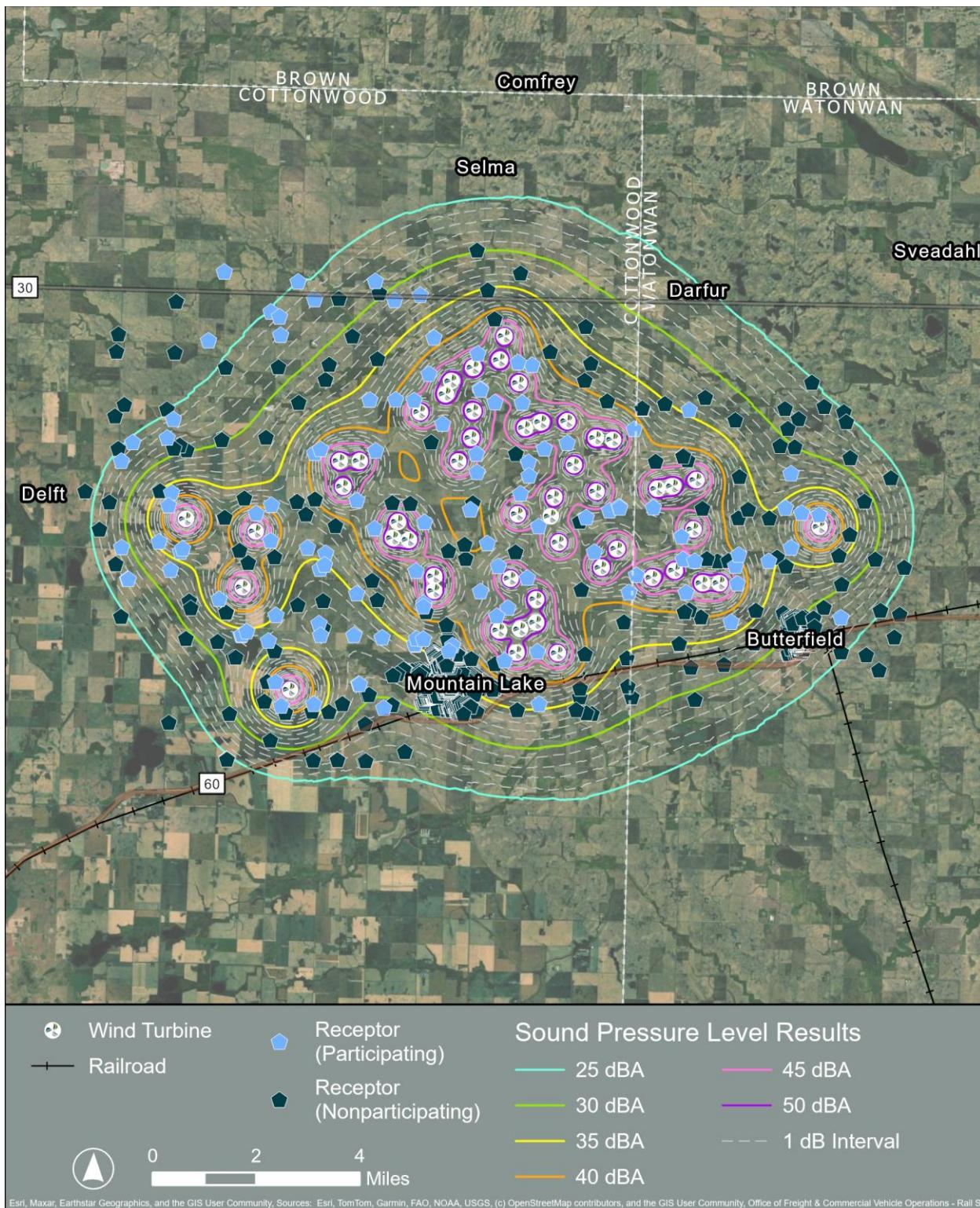


Figure 3: Model Results Map for GE 158

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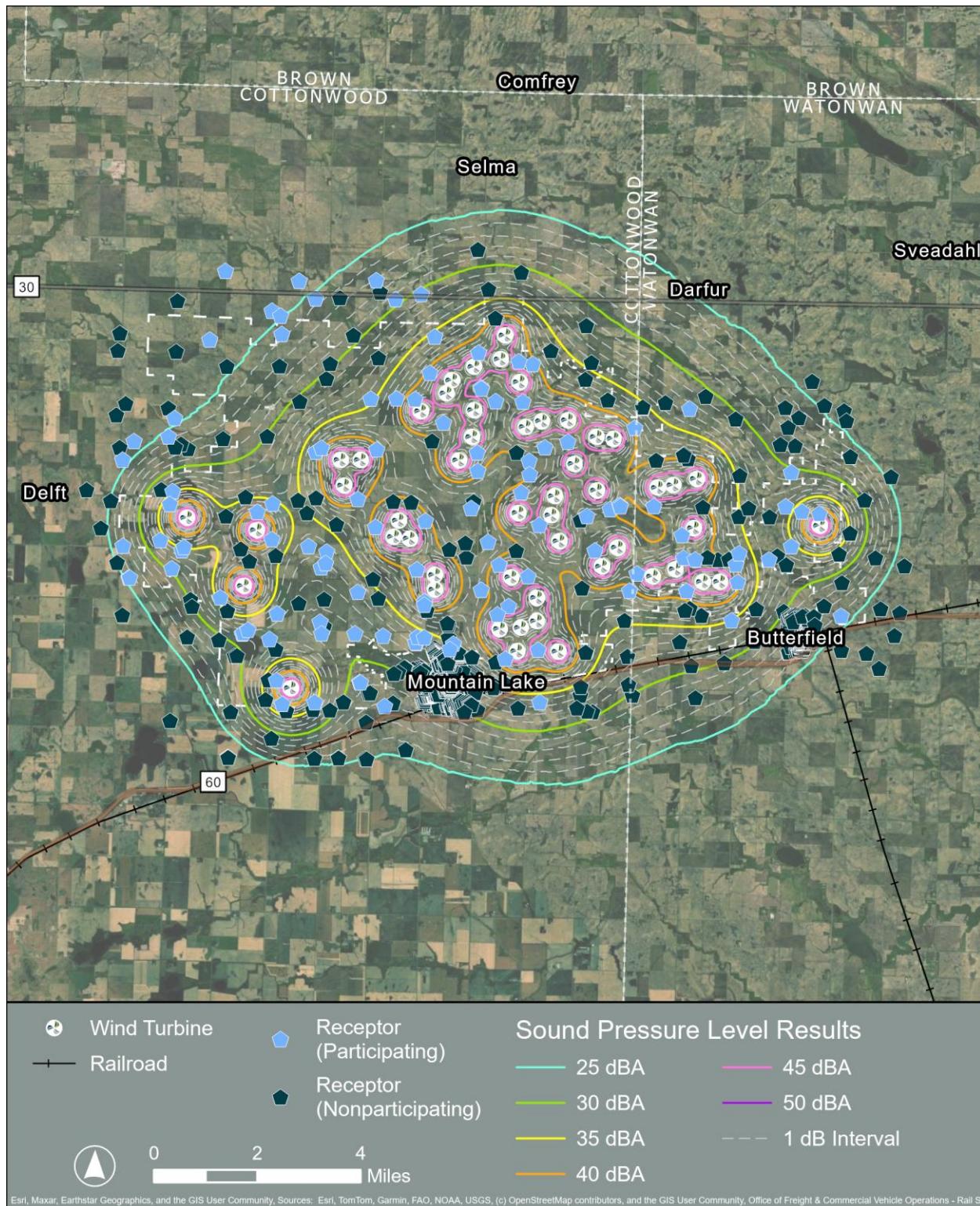


Figure 4: Model Results Map for the V162

Appendix D: Tabular Model Results & Receptor Maps

Table 8: Tabular Model Results for Each Discrete Receptor⁶

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|-------------------------------|---------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| 0 | participant | 46 | 43 | 352523 | 4870126 | 375 |
| 1 | participant | 47 | 44 | 352429 | 4871159 | 378 |
| 2 | participant | 47 | 44 | 352382 | 4871867 | 380 |
| 3 | participant | 45 | 42 | 351503 | 4872768 | 380 |
| 4 | nonparticipant | 42 | 39 | 352444 | 4874389 | 371 |
| 5 | participant | 45 | 42 | 352790 | 4871108 | 372 |
| 6 | participant | 38 | 35 | 353923 | 4869212 | 375 |
| 7 | participant | 44 | 41 | 354115 | 4870403 | 371 |
| 8 | participant | 42 | 39 | 354060 | 4870950 | 372 |
| 9 | participant | 39 | 37 | 354160 | 4871301 | 370 |
| 10 | participant | 32 | 30 | 355786 | 4873825 | 357 |
| 11 | participant | 36 | 33 | 355611 | 4872760 | 361 |
| 12 | participant | 37 | 34 | 355788 | 4871518 | 364 |
| 13 | participant | 36 | 33 | 355093 | 4871103 | 365 |
| 14 | participant | 28 | 26 | 357338 | 4869349 | 362 |
| 15 | participant | 40 | 37 | 356120 | 4872599 | 358 |
| 16 | participant | 46 | 43 | 356660 | 4872537 | 356 |
| 17 | participant | 23 | 22 | 337669 | 4877954 | 415 |
| 18 | participant | 27 | 26 | 339916 | 4878129 | 406 |
| 19 | participant | 38 | 36 | 344680 | 4878049 | 375 |
| 20 | nonparticipant | 26 | 25 | 338203 | 4877119 | 408 |
| 21 | nonparticipant | 29 | 27 | 339845 | 4877128 | 415 |
| 22 | nonparticipant | 32 | 30 | 341306 | 4876736 | 401 |
| 23 | nonparticipant | 31 | 30 | 341423 | 4877202 | 402 |
| 24 | participant | 37 | 35 | 342686 | 4876113 | 395 |
| 25 | participant | 44 | 41 | 344526 | 4876919 | 382 |
| 26 | participant | 46 | 43 | 344063 | 4876099 | 384 |
| 27 | participant | 41 | 38 | 343489 | 4876121 | 391 |

⁶ Maps of the receptor locations showing the receptor IDs are provided following the table in Figure 5 through Figure 8.

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|--------|-------------------------------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | LNTE | | |
| | | STE | X (m) | Y (m) | | |
| 28 | participant | 47 | 44 | 346045 | 4877547 | 374 |
| 29 | participant | 46 | 43 | 346121 | 4876467 | 375 |
| 30 | participant | 46 | 43 | 346133 | 4876425 | 375 |
| 32 | participant | 44 | 41 | 347732 | 4877194 | 373 |
| 33 | participant | 46 | 43 | 347298 | 4877275 | 370 |
| 34 | participant | 45 | 42 | 346577 | 4876037 | 377 |
| 35 | participant | 46 | 43 | 347426 | 4876019 | 377 |
| 36 | nonparticipant | 38 | 36 | 351171 | 4875823 | 372 |
| 37 | nonparticipant | 38 | 36 | 351159 | 4875846 | 373 |
| 38 | nonparticipant | 29 | 27 | 336591 | 4874598 | 425 |
| 39 | participant | 41 | 38 | 340973 | 4874461 | 409 |
| 40 | participant | 42 | 39 | 341151 | 4874584 | 406 |
| 41 | nonparticipant | 32 | 31 | 340476 | 4876025 | 405 |
| 42 | participant | 44 | 41 | 342874 | 4874531 | 406 |
| 44 | participant | 47 | 44 | 346003 | 4874437 | 386 |
| 45 | participant | 45 | 42 | 344951 | 4875368 | 386 |
| 46 | nonparticipant | 43 | 40 | 347229 | 4874434 | 380 |
| 47 | participant | 45 | 42 | 348113 | 4874596 | 377 |
| 48 | participant | 46 | 43 | 348826 | 4874772 | 378 |
| 49 | participant | 42 | 39 | 350906 | 4875206 | 377 |
| 50 | participant | 37 | 34 | 336518 | 4873233 | 431 |
| 51 | participant | 41 | 38 | 336426 | 4872830 | 431 |
| 52 | participant | 38 | 36 | 339628 | 4872846 | 411 |
| 53 | participant | 43 | 40 | 339152 | 4872589 | 412 |
| 54 | participant | 44 | 41 | 342284 | 4872991 | 406 |
| 55 | nonparticipant | 44 | 41 | 343385 | 4872908 | 405 |
| 56 | participant | 44 | 41 | 346021 | 4873868 | 389 |
| 57 | participant | 43 | 40 | 347619 | 4874180 | 379 |
| 58 | participant | 42 | 40 | 347637 | 4873755 | 381 |
| 59 | participant | 44 | 41 | 347374 | 4873197 | 386 |
| 60 | participant | 44 | 41 | 350141 | 4872674 | 379 |
| 61 | participant | 43 | 40 | 350439 | 4872803 | 378 |
| 62 | participant | 43 | 40 | 350460 | 4872763 | 379 |
| 63 | participant | 29 | 27 | 334966 | 4871532 | 441 |
| 64 | participant | 36 | 33 | 336130 | 4871707 | 435 |
| 65 | participant | 37 | 35 | 336802 | 4871389 | 435 |
| 66 | participant | 38 | 36 | 336866 | 4871494 | 433 |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|-------------------------------|---------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | |
| 68 | participant | 43 | 40 | 339605 | 4871738 | 412 |
| 69 | participant | 36 | 34 | 340748 | 4871519 | 404 |
| 70 | participant | 36 | 34 | 341312 | 4871350 | 402 |
| 71 | participant | 45 | 42 | 342830 | 4872120 | 405 |
| 72 | participant | 44 | 41 | 344389 | 4872311 | 403 |
| 73 | participant | 40 | 38 | 346342 | 4871655 | 394 |
| 74 | participant | 45 | 44 | 347938 | 4872183 | 387 |
| 75 | participant | 44 | 41 | 349417 | 4872460 | 382 |
| 76 | participant | 46 | 43 | 349669 | 4871388 | 384 |
| 77 | participant | 33 | 31 | 336487 | 4870827 | 435 |
| 78 | participant | 39 | 36 | 338000 | 4869923 | 428 |
| 79 | participant | 39 | 36 | 338000 | 4869923 | 428 |
| 80 | participant | 35 | 33 | 341142 | 4870860 | 409 |
| 81 | participant | 35 | 33 | 341279 | 4870990 | 407 |
| 82 | participant | 35 | 33 | 342281 | 4870098 | 409 |
| 83 | participant | 45 | 42 | 344122 | 4870798 | 403 |
| 84 | participant | 45 | 42 | 344360 | 4869798 | 404 |
| 85 | participant | 44 | 41 | 344353 | 4869692 | 402 |
| 86 | participant | 42 | 39 | 346127 | 4870164 | 401 |
| 87 | participant | 44 | 41 | 346682 | 4870947 | 397 |
| 88 | participant | 46 | 43 | 347586 | 4870582 | 394 |
| 89 | participant | 46 | 43 | 346980 | 4869652 | 399 |
| 90 | participant | 47 | 44 | 346633 | 4869395 | 401 |
| 91 | participant | 42 | 40 | 350747 | 4870134 | 383 |
| 92 | participant | 46 | 43 | 350980 | 4870668 | 382 |
| 93 | participant | 34 | 32 | 338684 | 4868796 | 429 |
| 94 | participant | 34 | 32 | 338712 | 4868821 | 429 |
| 95 | participant | 35 | 32 | 338858 | 4868915 | 427 |
| 96 | participant | 34 | 32 | 339533 | 4868625 | 416 |
| 97 | participant | 35 | 33 | 339769 | 4869422 | 408 |
| 98 | participant | 33 | 31 | 341105 | 4869168 | 413 |
| 99 | participant | 33 | 31 | 341155 | 4868800 | 416 |
| 100 | participant | 33 | 31 | 342192 | 4868804 | 411 |
| 101 | participant | 34 | 32 | 343071 | 4868728 | 409 |
| 102 | participant | 35 | 33 | 344109 | 4868502 | 406 |
| 103 | participant | 35 | 33 | 344081 | 4868518 | 407 |
| 104 | participant | 36 | 34 | 344140 | 4868696 | 404 |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 105 | participant | 37 | 34 | 344353 | 4868681 | 391 | |
| 106 | participant | 38 | 35 | 345261 | 4868483 | 398 | |
| 107 | participant | 37 | 35 | 345147 | 4868312 | 401 | |
| 108 | participant | 47 | 44 | 346879 | 4868012 | 400 | |
| 109 | participant | 46 | 43 | 347898 | 4868294 | 400 | |
| 110 | participant | 43 | 40 | 339746 | 4867346 | 423 | |
| 111 | participant | 43 | 40 | 339927 | 4866608 | 428 | |
| 112 | participant | 38 | 35 | 340942 | 4866660 | 422 | |
| 113 | participant | 31 | 29 | 342343 | 4867290 | 407 | |
| 114 | participant | 31 | 29 | 342365 | 4867276 | 407 | |
| 115 | participant | 30 | 28 | 343118 | 4866540 | 412 | |
| 116 | nonparticipant | 35 | 33 | 347271 | 4866472 | 399 | |
| 117 | participant | 36 | 34 | 347952 | 4866662 | 402 | |
| 118 | nonparticipant | 29 | 28 | 352799 | 4866793 | 391 | |
| 119 | nonparticipant | 32 | 30 | 350835 | 4866871 | 396 | |
| 120 | nonparticipant | 32 | 31 | 349596 | 4866355 | 399 | |
| 121 | nonparticipant | 33 | 31 | 349422 | 4866374 | 399 | |
| 122 | nonparticipant | 34 | 32 | 349103 | 4866475 | 398 | |
| 123 | nonparticipant | 35 | 33 | 349213 | 4866873 | 397 | |
| 124 | nonparticipant | 37 | 34 | 349228 | 4867141 | 400 | |
| 125 | nonparticipant | 33 | 31 | 350713 | 4867207 | 394 | |
| 126 | nonparticipant | 32 | 31 | 352670 | 4867794 | 387 | |
| 127 | nonparticipant | 32 | 30 | 353699 | 4867885 | 380 | |
| 128 | nonparticipant | 35 | 33 | 352311 | 4868532 | 387 | |
| 129 | nonparticipant | 35 | 33 | 350682 | 4868084 | 390 | |
| 130 | nonparticipant | 40 | 37 | 352982 | 4869356 | 382 | |
| 131 | nonparticipant | 38 | 36 | 350592 | 4869202 | 390 | |
| 132 | nonparticipant | 37 | 35 | 346440 | 4867166 | 403 | |
| 133 | nonparticipant | 38 | 35 | 346470 | 4867238 | 402 | |
| 134 | nonparticipant | 36 | 34 | 345927 | 4867324 | 403 | |
| 135 | nonparticipant | 36 | 34 | 345925 | 4867282 | 403 | |
| 136 | nonparticipant | 36 | 34 | 345907 | 4867282 | 403 | |
| 137 | nonparticipant | 37 | 34 | 345913 | 4867372 | 402 | |
| 138 | nonparticipant | 37 | 34 | 345950 | 4867371 | 402 | |
| 139 | nonparticipant | 37 | 35 | 345940 | 4867443 | 401 | |
| 140 | nonparticipant | 37 | 35 | 345907 | 4867442 | 401 | |
| 141 | nonparticipant | 37 | 34 | 345865 | 4867455 | 401 | |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 142 | nonparticipant | 37 | 34 | 345847 | 4867444 | 402 | |
| 143 | nonparticipant | 37 | 34 | 345820 | 4867444 | 402 | |
| 144 | nonparticipant | 36 | 34 | 345860 | 4867395 | 402 | |
| 145 | nonparticipant | 36 | 34 | 345824 | 4867406 | 402 | |
| 146 | nonparticipant | 36 | 34 | 345879 | 4867329 | 403 | |
| 147 | nonparticipant | 36 | 34 | 345930 | 4867261 | 404 | |
| 148 | nonparticipant | 37 | 35 | 345942 | 4867487 | 400 | |
| 149 | nonparticipant | 37 | 35 | 345944 | 4867530 | 399 | |
| 150 | nonparticipant | 37 | 35 | 345945 | 4867560 | 399 | |
| 151 | nonparticipant | 38 | 35 | 345946 | 4867582 | 399 | |
| 152 | nonparticipant | 37 | 35 | 345912 | 4867536 | 400 | |
| 153 | nonparticipant | 37 | 35 | 345886 | 4867537 | 400 | |
| 154 | nonparticipant | 37 | 35 | 345861 | 4867583 | 399 | |
| 155 | nonparticipant | 37 | 35 | 345819 | 4867579 | 400 | |
| 156 | nonparticipant | 37 | 34 | 345748 | 4867576 | 400 | |
| 157 | nonparticipant | 37 | 34 | 345815 | 4867464 | 402 | |
| 158 | nonparticipant | 43 | 40 | 346580 | 4867902 | 399 | |
| 159 | nonparticipant | 41 | 39 | 352621 | 4869576 | 380 | |
| 160 | nonparticipant | 43 | 40 | 351577 | 4874192 | 386 | |
| 161 | nonparticipant | 22 | 21 | 335051 | 4875960 | 432 | |
| 162 | nonparticipant | 33 | 32 | 349402 | 4878386 | 372 | |
| 164 | nonparticipant | 27 | 25 | 343773 | 4865177 | 412 | |
| 165 | nonparticipant | 26 | 25 | 342515 | 4864903 | 420 | |
| 166 | nonparticipant | 26 | 25 | 342556 | 4864887 | 420 | |
| 167 | nonparticipant | 32 | 30 | 344750 | 4866880 | 406 | |
| 168 | nonparticipant | 32 | 30 | 344826 | 4866883 | 406 | |
| 169 | nonparticipant | 32 | 30 | 344835 | 4866860 | 406 | |
| 170 | nonparticipant | 32 | 30 | 344751 | 4866843 | 406 | |
| 171 | nonparticipant | 31 | 30 | 344543 | 4866734 | 403 | |
| 172 | nonparticipant | 31 | 30 | 344570 | 4866748 | 403 | |
| 173 | nonparticipant | 31 | 30 | 344610 | 4866766 | 404 | |
| 174 | nonparticipant | 31 | 29 | 344475 | 4866630 | 402 | |
| 175 | nonparticipant | 31 | 30 | 344609 | 4866705 | 403 | |
| 176 | nonparticipant | 31 | 29 | 344635 | 4866594 | 403 | |
| 177 | nonparticipant | 31 | 30 | 344665 | 4866665 | 403 | |
| 178 | nonparticipant | 31 | 30 | 344668 | 4866729 | 405 | |
| 179 | nonparticipant | 31 | 30 | 344688 | 4866662 | 404 | |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 180 | nonparticipant | 32 | 30 | 344731 | 4866747 | 406 | |
| 181 | nonparticipant | 31 | 30 | 344712 | 4866671 | 405 | |
| 182 | nonparticipant | 31 | 30 | 344732 | 4866678 | 405 | |
| 183 | nonparticipant | 31 | 30 | 344756 | 4866692 | 405 | |
| 184 | nonparticipant | 31 | 30 | 344694 | 4866622 | 404 | |
| 185 | nonparticipant | 31 | 30 | 344728 | 4866632 | 405 | |
| 186 | nonparticipant | 31 | 30 | 344759 | 4866635 | 405 | |
| 187 | nonparticipant | 31 | 30 | 344811 | 4866658 | 406 | |
| 188 | nonparticipant | 32 | 30 | 344797 | 4866711 | 406 | |
| 189 | nonparticipant | 31 | 30 | 344785 | 4866604 | 405 | |
| 190 | nonparticipant | 32 | 30 | 344828 | 4866711 | 406 | |
| 191 | nonparticipant | 32 | 30 | 344878 | 4866732 | 406 | |
| 192 | nonparticipant | 31 | 30 | 344823 | 4866637 | 406 | |
| 193 | nonparticipant | 32 | 30 | 344772 | 4866770 | 406 | |
| 194 | nonparticipant | 32 | 30 | 344788 | 4866774 | 406 | |
| 195 | nonparticipant | 32 | 30 | 344824 | 4866785 | 406 | |
| 196 | nonparticipant | 32 | 30 | 344846 | 4866783 | 406 | |
| 197 | nonparticipant | 32 | 30 | 344837 | 4866739 | 406 | |
| 198 | nonparticipant | 32 | 30 | 344863 | 4866753 | 406 | |
| 199 | nonparticipant | 32 | 30 | 344794 | 4866823 | 406 | |
| 200 | nonparticipant | 32 | 30 | 344907 | 4866794 | 406 | |
| 201 | nonparticipant | 32 | 30 | 344593 | 4866823 | 407 | |
| 202 | nonparticipant | 33 | 31 | 344902 | 4866980 | 406 | |
| 203 | nonparticipant | 33 | 31 | 344898 | 4867036 | 406 | |
| 204 | nonparticipant | 32 | 31 | 344758 | 4867070 | 403 | |
| 205 | nonparticipant | 33 | 31 | 344832 | 4867143 | 403 | |
| 206 | nonparticipant | 33 | 31 | 344811 | 4867135 | 403 | |
| 207 | nonparticipant | 33 | 31 | 344787 | 4867127 | 403 | |
| 208 | nonparticipant | 33 | 31 | 344744 | 4867116 | 403 | |
| 209 | nonparticipant | 33 | 31 | 344722 | 4867109 | 404 | |
| 210 | nonparticipant | 32 | 31 | 344701 | 4867101 | 405 | |
| 211 | nonparticipant | 32 | 31 | 344681 | 4867093 | 405 | |
| 212 | nonparticipant | 33 | 31 | 344959 | 4866998 | 405 | |
| 213 | nonparticipant | 33 | 31 | 344953 | 4867020 | 405 | |
| 214 | nonparticipant | 33 | 31 | 344946 | 4867052 | 405 | |
| 215 | nonparticipant | 33 | 31 | 344930 | 4867105 | 404 | |
| 216 | nonparticipant | 33 | 31 | 344923 | 4867124 | 403 | |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 217 | nonparticipant | 33 | 31 | 344916 | 4867138 | 403 | |
| 218 | nonparticipant | 33 | 31 | 344912 | 4867161 | 403 | |
| 219 | nonparticipant | 33 | 31 | 344865 | 4867161 | 403 | |
| 220 | nonparticipant | 33 | 31 | 344867 | 4867146 | 403 | |
| 221 | nonparticipant | 33 | 31 | 344873 | 4867132 | 403 | |
| 222 | nonparticipant | 33 | 31 | 344881 | 4867110 | 404 | |
| 223 | nonparticipant | 33 | 31 | 344908 | 4867176 | 403 | |
| 224 | nonparticipant | 33 | 31 | 344892 | 4867214 | 403 | |
| 225 | nonparticipant | 33 | 31 | 344772 | 4867174 | 403 | |
| 226 | nonparticipant | 33 | 31 | 344814 | 4867192 | 403 | |
| 227 | nonparticipant | 33 | 31 | 344850 | 4867198 | 404 | |
| 228 | nonparticipant | 33 | 31 | 344833 | 4867234 | 404 | |
| 229 | nonparticipant | 33 | 31 | 344878 | 4867252 | 404 | |
| 230 | nonparticipant | 33 | 31 | 344870 | 4867273 | 404 | |
| 231 | nonparticipant | 33 | 31 | 344829 | 4867261 | 404 | |
| 232 | nonparticipant | 33 | 31 | 344816 | 4867301 | 404 | |
| 233 | nonparticipant | 33 | 31 | 344862 | 4867296 | 404 | |
| 234 | nonparticipant | 35 | 33 | 345372 | 4867332 | 406 | |
| 235 | nonparticipant | 34 | 32 | 345349 | 4867253 | 404 | |
| 236 | nonparticipant | 35 | 33 | 345407 | 4867339 | 407 | |
| 237 | nonparticipant | 34 | 32 | 345281 | 4867351 | 406 | |
| 238 | nonparticipant | 35 | 33 | 345325 | 4867370 | 406 | |
| 239 | nonparticipant | 35 | 33 | 345320 | 4867395 | 406 | |
| 240 | nonparticipant | 35 | 33 | 345354 | 4867384 | 406 | |
| 241 | nonparticipant | 35 | 33 | 345402 | 4867392 | 406 | |
| 242 | nonparticipant | 35 | 33 | 345431 | 4867404 | 405 | |
| 243 | nonparticipant | 35 | 33 | 345396 | 4867421 | 405 | |
| 244 | nonparticipant | 35 | 33 | 345400 | 4867448 | 404 | |
| 245 | nonparticipant | 35 | 33 | 345402 | 4867474 | 404 | |
| 246 | nonparticipant | 35 | 33 | 345399 | 4867503 | 403 | |
| 247 | nonparticipant | 35 | 33 | 345401 | 4867530 | 402 | |
| 248 | nonparticipant | 35 | 33 | 345401 | 4867554 | 401 | |
| 249 | nonparticipant | 35 | 33 | 345460 | 4867413 | 404 | |
| 250 | nonparticipant | 35 | 33 | 345434 | 4867349 | 406 | |
| 251 | nonparticipant | 35 | 33 | 345465 | 4867362 | 405 | |
| 252 | nonparticipant | 35 | 33 | 345487 | 4867372 | 405 | |
| 253 | nonparticipant | 34 | 32 | 345360 | 4867046 | 404 | |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|-------------------------------|---------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | |
| 254 | nonparticipant | 34 | 32 | 345362 | 4867014 | 404 |
| 255 | nonparticipant | 34 | 32 | 345422 | 4866985 | 405 |
| 256 | nonparticipant | 34 | 32 | 345466 | 4867118 | 406 |
| 257 | nonparticipant | 34 | 32 | 345444 | 4866998 | 405 |
| 258 | nonparticipant | 34 | 32 | 345451 | 4866969 | 405 |
| 259 | nonparticipant | 34 | 32 | 345481 | 4867010 | 405 |
| 260 | nonparticipant | 34 | 32 | 345470 | 4866934 | 405 |
| 261 | nonparticipant | 34 | 32 | 345489 | 4866945 | 405 |
| 262 | nonparticipant | 34 | 32 | 345506 | 4866950 | 405 |
| 263 | nonparticipant | 34 | 32 | 345522 | 4867027 | 405 |
| 264 | nonparticipant | 34 | 32 | 345484 | 4867063 | 406 |
| 265 | nonparticipant | 34 | 32 | 345530 | 4866958 | 405 |
| 266 | nonparticipant | 34 | 32 | 345516 | 4867070 | 406 |
| 267 | nonparticipant | 34 | 32 | 345556 | 4867036 | 406 |
| 268 | nonparticipant | 34 | 32 | 345574 | 4866969 | 405 |
| 269 | nonparticipant | 34 | 32 | 345484 | 4866894 | 405 |
| 270 | nonparticipant | 34 | 32 | 345515 | 4866902 | 405 |
| 271 | nonparticipant | 34 | 32 | 345535 | 4866911 | 406 |
| 272 | nonparticipant | 34 | 32 | 345550 | 4866912 | 406 |
| 273 | nonparticipant | 34 | 32 | 345570 | 4866916 | 406 |
| 274 | nonparticipant | 34 | 32 | 345591 | 4866928 | 406 |
| 275 | nonparticipant | 34 | 32 | 345586 | 4867044 | 406 |
| 276 | nonparticipant | 34 | 32 | 345594 | 4866983 | 405 |
| 277 | nonparticipant | 34 | 32 | 345546 | 4867080 | 406 |
| 278 | nonparticipant | 34 | 32 | 345570 | 4867093 | 406 |
| 279 | nonparticipant | 35 | 33 | 345615 | 4867105 | 405 |
| 280 | nonparticipant | 34 | 32 | 345545 | 4867110 | 405 |
| 281 | nonparticipant | 35 | 32 | 345573 | 4867116 | 405 |
| 282 | nonparticipant | 34 | 32 | 345612 | 4867051 | 406 |
| 283 | nonparticipant | 34 | 32 | 345618 | 4866994 | 405 |
| 284 | nonparticipant | 34 | 32 | 345663 | 4867004 | 405 |
| 285 | nonparticipant | 34 | 32 | 345652 | 4867042 | 405 |
| 286 | nonparticipant | 35 | 33 | 345663 | 4867071 | 405 |
| 287 | nonparticipant | 34 | 32 | 345688 | 4866966 | 405 |
| 288 | nonparticipant | 34 | 32 | 345706 | 4866917 | 405 |
| 289 | nonparticipant | 35 | 33 | 345704 | 4867048 | 405 |
| 290 | nonparticipant | 35 | 33 | 345754 | 4867031 | 405 |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 291 | nonparticipant | 35 | 33 | 345780 | 4866997 | 404 | |
| 292 | nonparticipant | 35 | 33 | 345798 | 4867004 | 404 | |
| 293 | nonparticipant | 35 | 33 | 345768 | 4867037 | 405 | |
| 294 | nonparticipant | 34 | 32 | 345797 | 4866912 | 404 | |
| 295 | nonparticipant | 34 | 32 | 345734 | 4866956 | 404 | |
| 296 | nonparticipant | 35 | 33 | 345551 | 4867201 | 405 | |
| 297 | nonparticipant | 35 | 33 | 345598 | 4867165 | 405 | |
| 298 | nonparticipant | 35 | 33 | 345599 | 4867217 | 404 | |
| 299 | nonparticipant | 35 | 33 | 345627 | 4867227 | 404 | |
| 300 | nonparticipant | 35 | 33 | 345656 | 4867232 | 404 | |
| 301 | nonparticipant | 35 | 33 | 345646 | 4867177 | 404 | |
| 302 | nonparticipant | 35 | 33 | 345637 | 4867115 | 405 | |
| 303 | nonparticipant | 35 | 33 | 345679 | 4867151 | 404 | |
| 304 | nonparticipant | 36 | 33 | 345713 | 4867279 | 403 | |
| 305 | nonparticipant | 35 | 33 | 345669 | 4867279 | 403 | |
| 306 | nonparticipant | 35 | 33 | 345619 | 4867282 | 403 | |
| 307 | nonparticipant | 35 | 33 | 345598 | 4867284 | 403 | |
| 308 | nonparticipant | 35 | 33 | 345748 | 4867149 | 404 | |
| 309 | nonparticipant | 35 | 33 | 345759 | 4867103 | 405 | |
| 310 | nonparticipant | 35 | 33 | 345713 | 4867238 | 404 | |
| 311 | nonparticipant | 35 | 33 | 345793 | 4867164 | 405 | |
| 312 | nonparticipant | 35 | 33 | 345805 | 4867122 | 405 | |
| 313 | nonparticipant | 35 | 33 | 345796 | 4867094 | 405 | |
| 314 | nonparticipant | 35 | 33 | 345865 | 4867137 | 404 | |
| 315 | nonparticipant | 35 | 33 | 345839 | 4867129 | 405 | |
| 316 | nonparticipant | 35 | 33 | 345821 | 4867055 | 404 | |
| 317 | nonparticipant | 35 | 33 | 345805 | 4867048 | 404 | |
| 318 | nonparticipant | 35 | 33 | 345893 | 4867086 | 404 | |
| 319 | nonparticipant | 36 | 34 | 345879 | 4867199 | 404 | |
| 320 | nonparticipant | 36 | 33 | 345948 | 4867109 | 404 | |
| 321 | nonparticipant | 36 | 34 | 345993 | 4867152 | 404 | |
| 322 | nonparticipant | 35 | 33 | 345878 | 4867027 | 404 | |
| 323 | nonparticipant | 35 | 33 | 345827 | 4867019 | 405 | |
| 324 | nonparticipant | 35 | 33 | 345940 | 4866954 | 404 | |
| 325 | nonparticipant | 36 | 34 | 345632 | 4867452 | 403 | |
| 326 | nonparticipant | 36 | 34 | 345654 | 4867450 | 403 | |
| 327 | nonparticipant | 36 | 34 | 345674 | 4867448 | 403 | |

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Big Bend Wind

Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 328 | nonparticipant | 36 | 34 | 345699 | 4867449 | 403 | |
| 329 | nonparticipant | 36 | 34 | 345729 | 4867451 | 402 | |
| 330 | nonparticipant | 36 | 34 | 345755 | 4867451 | 402 | |
| 331 | nonparticipant | 36 | 34 | 345624 | 4867398 | 404 | |
| 332 | nonparticipant | 36 | 34 | 345682 | 4867399 | 404 | |
| 333 | nonparticipant | 36 | 34 | 345735 | 4867396 | 403 | |
| 334 | nonparticipant | 36 | 34 | 345763 | 4867394 | 403 | |
| 335 | nonparticipant | 36 | 33 | 345536 | 4867445 | 403 | |
| 336 | nonparticipant | 31 | 29 | 344813 | 4866507 | 405 | |
| 337 | nonparticipant | 31 | 30 | 345073 | 4866480 | 405 | |
| 338 | nonparticipant | 32 | 30 | 345073 | 4866588 | 406 | |
| 339 | nonparticipant | 32 | 30 | 345155 | 4866517 | 406 | |
| 340 | nonparticipant | 32 | 30 | 345154 | 4866577 | 405 | |
| 341 | nonparticipant | 32 | 30 | 345177 | 4866551 | 405 | |
| 342 | nonparticipant | 32 | 30 | 345230 | 4866608 | 405 | |
| 343 | nonparticipant | 32 | 30 | 345138 | 4866641 | 406 | |
| 344 | nonparticipant | 32 | 30 | 345175 | 4866616 | 406 | |
| 345 | nonparticipant | 32 | 30 | 345223 | 4866546 | 404 | |
| 346 | nonparticipant | 32 | 30 | 345224 | 4866505 | 405 | |
| 347 | nonparticipant | 32 | 30 | 345225 | 4866474 | 405 | |
| 348 | nonparticipant | 32 | 30 | 345263 | 4866608 | 405 | |
| 349 | nonparticipant | 32 | 30 | 345325 | 4866601 | 404 | |
| 350 | nonparticipant | 32 | 30 | 345389 | 4866375 | 406 | |
| 351 | nonparticipant | 32 | 30 | 345415 | 4866380 | 406 | |
| 352 | nonparticipant | 32 | 30 | 345452 | 4866384 | 405 | |
| 353 | nonparticipant | 32 | 30 | 345363 | 4866423 | 405 | |
| 354 | nonparticipant | 32 | 30 | 345387 | 4866425 | 405 | |
| 355 | nonparticipant | 32 | 30 | 345409 | 4866426 | 405 | |
| 356 | nonparticipant | 32 | 30 | 345444 | 4866424 | 405 | |
| 357 | nonparticipant | 32 | 31 | 345406 | 4866588 | 404 | |
| 358 | nonparticipant | 32 | 30 | 345484 | 4866422 | 405 | |
| 359 | nonparticipant | 32 | 30 | 345516 | 4866464 | 403 | |
| 360 | nonparticipant | 32 | 31 | 345542 | 4866483 | 401 | |
| 361 | nonparticipant | 32 | 31 | 345582 | 4866473 | 403 | |
| 362 | nonparticipant | 32 | 30 | 345581 | 4866431 | 404 | |
| 363 | nonparticipant | 32 | 31 | 345658 | 4866458 | 403 | |
| 364 | nonparticipant | 32 | 31 | 345648 | 4866439 | 404 | |

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Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 365 | nonparticipant | 32 | 30 | 345675 | 4866361 | 403 | |
| 366 | nonparticipant | 33 | 31 | 345708 | 4866454 | 403 | |
| 367 | nonparticipant | 33 | 31 | 345789 | 4866420 | 403 | |
| 368 | nonparticipant | 33 | 31 | 345822 | 4866437 | 403 | |
| 369 | nonparticipant | 33 | 31 | 345852 | 4866438 | 404 | |
| 370 | nonparticipant | 33 | 31 | 346010 | 4866417 | 407 | |
| 371 | nonparticipant | 33 | 31 | 345385 | 4866659 | 405 | |
| 372 | nonparticipant | 32 | 31 | 345361 | 4866653 | 405 | |
| 373 | nonparticipant | 33 | 31 | 345444 | 4866656 | 404 | |
| 374 | nonparticipant | 33 | 31 | 345394 | 4866700 | 404 | |
| 375 | nonparticipant | 33 | 31 | 345445 | 4866712 | 403 | |
| 376 | nonparticipant | 33 | 31 | 345449 | 4866697 | 403 | |
| 377 | nonparticipant | 33 | 31 | 345467 | 4866597 | 404 | |
| 378 | nonparticipant | 33 | 31 | 345526 | 4866650 | 404 | |
| 379 | nonparticipant | 33 | 31 | 345486 | 4866686 | 403 | |
| 380 | nonparticipant | 33 | 31 | 345535 | 4866560 | 402 | |
| 381 | nonparticipant | 33 | 31 | 345588 | 4866595 | 403 | |
| 382 | nonparticipant | 33 | 31 | 345575 | 4866651 | 403 | |
| 383 | nonparticipant | 33 | 31 | 345654 | 4866648 | 403 | |
| 384 | nonparticipant | 33 | 31 | 345744 | 4866649 | 403 | |
| 385 | nonparticipant | 33 | 31 | 345760 | 4866595 | 400 | |
| 386 | nonparticipant | 33 | 31 | 345799 | 4866595 | 399 | |
| 387 | nonparticipant | 33 | 31 | 345824 | 4866577 | 399 | |
| 388 | nonparticipant | 34 | 32 | 344729 | 4867554 | 404 | |
| 389 | nonparticipant | 34 | 32 | 344711 | 4867579 | 404 | |
| 390 | nonparticipant | 34 | 32 | 344798 | 4867714 | 400 | |
| 391 | nonparticipant | 34 | 32 | 344817 | 4867664 | 401 | |
| 392 | nonparticipant | 34 | 32 | 344828 | 4867635 | 403 | |
| 393 | nonparticipant | 34 | 32 | 344841 | 4867620 | 403 | |
| 394 | nonparticipant | 34 | 32 | 344846 | 4867589 | 403 | |
| 395 | nonparticipant | 34 | 32 | 344858 | 4867551 | 404 | |
| 396 | nonparticipant | 33 | 32 | 344482 | 4867617 | 395 | |
| 397 | nonparticipant | 34 | 32 | 344913 | 4867548 | 404 | |
| 398 | nonparticipant | 34 | 32 | 344904 | 4867576 | 404 | |
| 399 | nonparticipant | 34 | 32 | 344941 | 4867543 | 404 | |
| 400 | nonparticipant | 34 | 32 | 345013 | 4867549 | 403 | |
| 401 | nonparticipant | 34 | 32 | 344881 | 4867641 | 404 | |

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Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 402 | nonparticipant | 34 | 32 | 344863 | 4867674 | 402 | |
| 403 | nonparticipant | 34 | 32 | 344761 | 4867777 | 401 | |
| 404 | nonparticipant | 35 | 33 | 344836 | 4867763 | 400 | |
| 405 | nonparticipant | 34 | 33 | 344882 | 4867717 | 402 | |
| 406 | nonparticipant | 35 | 33 | 344896 | 4867754 | 402 | |
| 407 | nonparticipant | 35 | 33 | 344993 | 4867740 | 401 | |
| 408 | nonparticipant | 35 | 33 | 345319 | 4867639 | 399 | |
| 409 | nonparticipant | 36 | 33 | 345356 | 4867641 | 399 | |
| 410 | nonparticipant | 36 | 34 | 345397 | 4867638 | 399 | |
| 411 | nonparticipant | 36 | 34 | 345458 | 4867642 | 400 | |
| 412 | nonparticipant | 36 | 34 | 345494 | 4867635 | 401 | |
| 413 | nonparticipant | 36 | 34 | 345552 | 4867631 | 399 | |
| 415 | nonparticipant | 29 | 27 | 342542 | 4866036 | 418 | |
| 416 | nonparticipant | 26 | 24 | 334279 | 4872084 | 442 | |
| 417 | nonparticipant | 27 | 26 | 341679 | 4864929 | 422 | |
| 418 | nonparticipant | 27 | 26 | 341682 | 4864918 | 422 | |
| 419 | nonparticipant | 28 | 26 | 340928 | 4864906 | 426 | |
| 420 | nonparticipant | 31 | 29 | 339590 | 4865531 | 430 | |
| 421 | nonparticipant | 31 | 29 | 344313 | 4866680 | 405 | |
| 422 | nonparticipant | 31 | 29 | 344321 | 4866721 | 404 | |
| 423 | nonparticipant | 31 | 29 | 344371 | 4866680 | 403 | |
| 424 | nonparticipant | 31 | 29 | 344380 | 4866740 | 403 | |
| 425 | nonparticipant | 31 | 30 | 344405 | 4866810 | 402 | |
| 426 | nonparticipant | 31 | 30 | 344397 | 4866858 | 403 | |
| 427 | nonparticipant | 31 | 30 | 344487 | 4866840 | 404 | |
| 428 | nonparticipant | 32 | 30 | 344522 | 4866852 | 406 | |
| 429 | nonparticipant | 32 | 30 | 344557 | 4866860 | 407 | |
| 430 | nonparticipant | 32 | 30 | 344582 | 4866871 | 407 | |
| 431 | nonparticipant | 32 | 30 | 344622 | 4866882 | 407 | |
| 432 | nonparticipant | 32 | 30 | 344636 | 4866885 | 407 | |
| 433 | nonparticipant | 32 | 30 | 344648 | 4866891 | 407 | |
| 434 | nonparticipant | 32 | 30 | 344656 | 4866906 | 406 | |
| 435 | nonparticipant | 32 | 30 | 344674 | 4866924 | 406 | |
| 436 | nonparticipant | 32 | 30 | 344667 | 4866943 | 405 | |
| 437 | nonparticipant | 32 | 30 | 344659 | 4866965 | 403 | |
| 438 | nonparticipant | 32 | 30 | 344637 | 4867015 | 403 | |
| 439 | nonparticipant | 32 | 31 | 344621 | 4867080 | 406 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 440 | nonparticipant | 32 | 31 | 344596 | 4867085 | 406 | |
| 441 | nonparticipant | 32 | 30 | 344576 | 4867084 | 406 | |
| 442 | nonparticipant | 32 | 30 | 344562 | 4867069 | 405 | |
| 443 | nonparticipant | 32 | 30 | 344537 | 4867073 | 405 | |
| 444 | nonparticipant | 32 | 30 | 344511 | 4867086 | 406 | |
| 445 | nonparticipant | 32 | 30 | 344485 | 4867084 | 406 | |
| 446 | nonparticipant | 32 | 30 | 344464 | 4867084 | 406 | |
| 447 | nonparticipant | 32 | 30 | 344441 | 4867084 | 406 | |
| 448 | nonparticipant | 32 | 30 | 344403 | 4867078 | 405 | |
| 449 | nonparticipant | 32 | 30 | 344334 | 4867153 | 405 | |
| 450 | nonparticipant | 32 | 30 | 344427 | 4867136 | 406 | |
| 451 | nonparticipant | 32 | 30 | 344394 | 4867190 | 405 | |
| 452 | nonparticipant | 32 | 30 | 344467 | 4867129 | 406 | |
| 453 | nonparticipant | 32 | 31 | 344494 | 4867196 | 406 | |
| 454 | nonparticipant | 32 | 30 | 344511 | 4867129 | 407 | |
| 455 | nonparticipant | 32 | 31 | 344298 | 4867305 | 406 | |
| 456 | nonparticipant | 33 | 31 | 344223 | 4867501 | 403 | |
| 457 | nonparticipant | 33 | 31 | 344226 | 4867539 | 402 | |
| 458 | nonparticipant | 33 | 31 | 344192 | 4867630 | 401 | |
| 459 | nonparticipant | 33 | 31 | 344248 | 4867728 | 396 | |
| 460 | nonparticipant | 33 | 31 | 344164 | 4867706 | 395 | |
| 461 | nonparticipant | 33 | 31 | 344097 | 4867692 | 394 | |
| 462 | nonparticipant | 33 | 31 | 344005 | 4867683 | 392 | |
| 463 | nonparticipant | 32 | 31 | 343806 | 4867708 | 394 | |
| 464 | nonparticipant | 32 | 31 | 343763 | 4867732 | 393 | |
| 465 | nonparticipant | 32 | 31 | 343735 | 4867738 | 393 | |
| 466 | nonparticipant | 32 | 30 | 343547 | 4867593 | 393 | |
| 467 | nonparticipant | 33 | 31 | 344526 | 4867272 | 406 | |
| 468 | nonparticipant | 33 | 31 | 344514 | 4867474 | 404 | |
| 469 | nonparticipant | 33 | 31 | 344585 | 4867490 | 404 | |
| 470 | nonparticipant | 33 | 32 | 344663 | 4867500 | 405 | |
| 471 | nonparticipant | 33 | 32 | 344662 | 4867472 | 406 | |
| 472 | nonparticipant | 33 | 31 | 344660 | 4867442 | 406 | |
| 473 | nonparticipant | 34 | 32 | 344706 | 4867502 | 405 | |
| 474 | nonparticipant | 33 | 32 | 344707 | 4867473 | 405 | |
| 475 | nonparticipant | 33 | 32 | 344729 | 4867441 | 405 | |
| 476 | nonparticipant | 33 | 31 | 344707 | 4867416 | 406 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 477 | nonparticipant | 33 | 31 | 344711 | 4867386 | 406 | |
| 478 | nonparticipant | 33 | 31 | 344661 | 4867413 | 406 | |
| 479 | nonparticipant | 33 | 31 | 344663 | 4867391 | 406 | |
| 480 | nonparticipant | 33 | 31 | 344662 | 4867372 | 406 | |
| 481 | nonparticipant | 33 | 31 | 344652 | 4867351 | 406 | |
| 482 | nonparticipant | 33 | 31 | 344612 | 4867197 | 405 | |
| 483 | nonparticipant | 33 | 31 | 344639 | 4867196 | 405 | |
| 484 | nonparticipant | 33 | 31 | 344682 | 4867281 | 405 | |
| 485 | nonparticipant | 33 | 31 | 344690 | 4867150 | 404 | |
| 486 | nonparticipant | 33 | 31 | 344725 | 4867163 | 404 | |
| 487 | nonparticipant | 33 | 31 | 344743 | 4867263 | 405 | |
| 488 | nonparticipant | 33 | 31 | 344755 | 4867210 | 404 | |
| 489 | nonparticipant | 33 | 31 | 344704 | 4867198 | 404 | |
| 490 | nonparticipant | 33 | 31 | 344736 | 4867307 | 406 | |
| 491 | nonparticipant | 33 | 31 | 344753 | 4867361 | 405 | |
| 492 | nonparticipant | 32 | 31 | 344659 | 4867134 | 406 | |
| 493 | nonparticipant | 32 | 30 | 344717 | 4866947 | 406 | |
| 494 | nonparticipant | 32 | 31 | 344699 | 4867030 | 403 | |
| 495 | nonparticipant | 32 | 30 | 344737 | 4866923 | 407 | |
| 496 | nonparticipant | 32 | 31 | 344741 | 4867042 | 403 | |
| 497 | nonparticipant | 32 | 31 | 344797 | 4866967 | 406 | |
| 498 | nonparticipant | 32 | 31 | 344782 | 4867010 | 405 | |
| 499 | nonparticipant | 32 | 31 | 344766 | 4867006 | 404 | |
| 500 | nonparticipant | 32 | 30 | 344795 | 4866938 | 406 | |
| 501 | nonparticipant | 32 | 30 | 344804 | 4866896 | 406 | |
| 502 | nonparticipant | 33 | 32 | 344847 | 4867342 | 404 | |
| 503 | nonparticipant | 33 | 32 | 344832 | 4867381 | 405 | |
| 504 | nonparticipant | 33 | 32 | 344826 | 4867397 | 404 | |
| 505 | nonparticipant | 34 | 32 | 344813 | 4867442 | 404 | |
| 506 | nonparticipant | 34 | 32 | 344797 | 4867466 | 403 | |
| 507 | nonparticipant | 34 | 32 | 344885 | 4867472 | 403 | |
| 508 | nonparticipant | 34 | 32 | 344831 | 4867500 | 404 | |
| 509 | nonparticipant | 34 | 32 | 344894 | 4867443 | 404 | |
| 510 | nonparticipant | 34 | 32 | 344959 | 4867498 | 404 | |
| 511 | nonparticipant | 34 | 32 | 344931 | 4867482 | 403 | |
| 512 | nonparticipant | 34 | 32 | 344944 | 4867454 | 403 | |
| 513 | nonparticipant | 34 | 32 | 344951 | 4867432 | 403 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 514 | nonparticipant | 34 | 32 | 344957 | 4867412 | 404 | |
| 515 | nonparticipant | 34 | 32 | 344962 | 4867389 | 404 | |
| 516 | nonparticipant | 34 | 32 | 344968 | 4867376 | 404 | |
| 517 | nonparticipant | 34 | 32 | 344914 | 4867379 | 404 | |
| 518 | nonparticipant | 34 | 32 | 344904 | 4867407 | 404 | |
| 519 | nonparticipant | 34 | 32 | 344922 | 4867357 | 404 | |
| 520 | nonparticipant | 34 | 32 | 344930 | 4867341 | 404 | |
| 521 | nonparticipant | 34 | 32 | 344939 | 4867307 | 405 | |
| 522 | nonparticipant | 34 | 32 | 344979 | 4867352 | 404 | |
| 523 | nonparticipant | 34 | 32 | 344990 | 4867325 | 404 | |
| 524 | nonparticipant | 34 | 32 | 345002 | 4867280 | 405 | |
| 525 | nonparticipant | 33 | 32 | 344953 | 4867273 | 404 | |
| 526 | nonparticipant | 33 | 32 | 344962 | 4867255 | 404 | |
| 527 | nonparticipant | 33 | 32 | 344969 | 4867241 | 404 | |
| 528 | nonparticipant | 33 | 31 | 344939 | 4867186 | 403 | |
| 529 | nonparticipant | 33 | 31 | 344958 | 4867116 | 404 | |
| 530 | nonparticipant | 33 | 31 | 344998 | 4867155 | 403 | |
| 531 | nonparticipant | 33 | 31 | 344993 | 4867169 | 403 | |
| 532 | nonparticipant | 33 | 31 | 344931 | 4867224 | 403 | |
| 533 | nonparticipant | 33 | 31 | 344977 | 4867082 | 405 | |
| 534 | nonparticipant | 33 | 31 | 344990 | 4867011 | 405 | |
| 535 | nonparticipant | 33 | 31 | 345016 | 4867020 | 405 | |
| 536 | nonparticipant | 33 | 31 | 345044 | 4867024 | 405 | |
| 537 | nonparticipant | 33 | 31 | 345017 | 4867093 | 404 | |
| 538 | nonparticipant | 33 | 31 | 345076 | 4867096 | 404 | |
| 539 | nonparticipant | 33 | 31 | 345045 | 4867154 | 403 | |
| 540 | nonparticipant | 33 | 31 | 345142 | 4867060 | 404 | |
| 541 | nonparticipant | 33 | 32 | 345161 | 4867076 | 403 | |
| 542 | nonparticipant | 33 | 32 | 345150 | 4867105 | 403 | |
| 543 | nonparticipant | 33 | 32 | 345139 | 4867121 | 403 | |
| 544 | nonparticipant | 33 | 32 | 345077 | 4867156 | 403 | |
| 545 | nonparticipant | 34 | 32 | 345097 | 4867175 | 403 | |
| 546 | nonparticipant | 33 | 32 | 345030 | 4867203 | 404 | |
| 547 | nonparticipant | 33 | 32 | 345023 | 4867219 | 404 | |
| 548 | nonparticipant | 34 | 32 | 345015 | 4867259 | 404 | |
| 549 | nonparticipant | 34 | 32 | 345113 | 4867217 | 404 | |
| 550 | nonparticipant | 34 | 32 | 345050 | 4867270 | 405 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 551 | nonparticipant | 34 | 32 | 345086 | 4867285 | 405 | |
| 552 | nonparticipant | 34 | 32 | 345148 | 4867253 | 404 | |
| 553 | nonparticipant | 34 | 32 | 345164 | 4867188 | 403 | |
| 554 | nonparticipant | 34 | 32 | 345121 | 4867293 | 405 | |
| 555 | nonparticipant | 34 | 32 | 345181 | 4867146 | 403 | |
| 556 | nonparticipant | 34 | 32 | 345211 | 4867200 | 403 | |
| 557 | nonparticipant | 34 | 32 | 345189 | 4867264 | 404 | |
| 558 | nonparticipant | 34 | 32 | 345222 | 4867275 | 404 | |
| 559 | nonparticipant | 34 | 32 | 345223 | 4867240 | 403 | |
| 560 | nonparticipant | 34 | 32 | 345287 | 4867249 | 404 | |
| 561 | nonparticipant | 34 | 32 | 345235 | 4867218 | 403 | |
| 562 | nonparticipant | 34 | 32 | 345208 | 4867323 | 404 | |
| 563 | nonparticipant | 34 | 32 | 345048 | 4867340 | 405 | |
| 564 | nonparticipant | 34 | 32 | 345079 | 4867340 | 405 | |
| 565 | nonparticipant | 34 | 32 | 345101 | 4867348 | 405 | |
| 566 | nonparticipant | 34 | 32 | 345086 | 4867388 | 404 | |
| 567 | nonparticipant | 34 | 32 | 345116 | 4867399 | 404 | |
| 568 | nonparticipant | 34 | 32 | 345139 | 4867406 | 404 | |
| 569 | nonparticipant | 34 | 32 | 345144 | 4867372 | 405 | |
| 570 | nonparticipant | 34 | 32 | 345191 | 4867347 | 404 | |
| 571 | nonparticipant | 34 | 32 | 345192 | 4867376 | 404 | |
| 572 | nonparticipant | 34 | 32 | 345268 | 4867298 | 405 | |
| 573 | nonparticipant | 34 | 32 | 345288 | 4867302 | 405 | |
| 574 | nonparticipant | 34 | 32 | 345308 | 4867308 | 405 | |
| 575 | nonparticipant | 34 | 33 | 345324 | 4867315 | 405 | |
| 576 | nonparticipant | 35 | 33 | 345349 | 4867325 | 406 | |
| 577 | nonparticipant | 35 | 33 | 344944 | 4867742 | 402 | |
| 578 | nonparticipant | 35 | 33 | 345006 | 4867695 | 403 | |
| 579 | nonparticipant | 35 | 33 | 345046 | 4867699 | 402 | |
| 580 | nonparticipant | 35 | 33 | 345028 | 4867734 | 401 | |
| 581 | nonparticipant | 35 | 33 | 345060 | 4867741 | 401 | |
| 582 | nonparticipant | 35 | 33 | 345144 | 4867694 | 401 | |
| 583 | nonparticipant | 35 | 33 | 345151 | 4867744 | 400 | |
| 584 | nonparticipant | 36 | 33 | 345197 | 4867777 | 398 | |
| 585 | nonparticipant | 35 | 33 | 345200 | 4867747 | 398 | |
| 586 | nonparticipant | 35 | 33 | 345197 | 4867711 | 399 | |
| 587 | nonparticipant | 35 | 33 | 345196 | 4867679 | 400 | |

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Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 588 | nonparticipant | 35 | 33 | 345149 | 4867669 | 401 | |
| 589 | nonparticipant | 35 | 33 | 345126 | 4867671 | 401 | |
| 590 | nonparticipant | 36 | 34 | 345217 | 4867936 | 397 | |
| 591 | nonparticipant | 35 | 33 | 345235 | 4867642 | 400 | |
| 592 | nonparticipant | 35 | 33 | 345260 | 4867638 | 399 | |
| 593 | nonparticipant | 35 | 33 | 345286 | 4867644 | 399 | |
| 594 | nonparticipant | 32 | 30 | 343409 | 4867547 | 391 | |
| 595 | participant | 34 | 32 | 352617 | 4875800 | 365 | |
| 596 | nonparticipant | 43 | 40 | 352567 | 4874236 | 371 | |
| 597 | nonparticipant | 36 | 33 | 354694 | 4869562 | 371 | |
| 598 | nonparticipant | 38 | 35 | 354152 | 4872437 | 370 | |
| 599 | nonparticipant | 36 | 34 | 354454 | 4872703 | 364 | |
| 600 | nonparticipant | 37 | 34 | 354182 | 4873719 | 364 | |
| 601 | nonparticipant | 32 | 31 | 354055 | 4875479 | 362 | |
| 602 | nonparticipant | 25 | 24 | 356437 | 4876650 | 351 | |
| 603 | nonparticipant | 28 | 27 | 355599 | 4875833 | 352 | |
| 604 | nonparticipant | 28 | 27 | 356021 | 4875517 | 352 | |
| 605 | nonparticipant | 29 | 28 | 355687 | 4875216 | 352 | |
| 606 | nonparticipant | 30 | 28 | 355902 | 4874643 | 353 | |
| 607 | nonparticipant | 31 | 29 | 355446 | 4874682 | 356 | |
| 608 | nonparticipant | 35 | 33 | 355352 | 4871213 | 367 | |
| 609 | nonparticipant | 35 | 32 | 355630 | 4870935 | 365 | |
| 610 | nonparticipant | 32 | 30 | 355553 | 4869487 | 370 | |
| 611 | nonparticipant | 29 | 28 | 356806 | 4869653 | 364 | |
| 612 | nonparticipant | 31 | 29 | 357363 | 4870377 | 361 | |
| 613 | nonparticipant | 36 | 34 | 357276 | 4871269 | 358 | |
| 614 | nonparticipant | 37 | 34 | 357615 | 4871921 | 355 | |
| 615 | nonparticipant | 32 | 29 | 358069 | 4872952 | 351 | |
| 616 | nonparticipant | 28 | 27 | 357627 | 4874308 | 350 | |
| 617 | nonparticipant | 25 | 24 | 357430 | 4875734 | 351 | |
| 618 | nonparticipant | 26 | 24 | 357505 | 4875420 | 352 | |
| 619 | nonparticipant | 26 | 25 | 356819 | 4875899 | 350 | |
| 620 | nonparticipant | 32 | 31 | 353119 | 4876184 | 363 | |
| 621 | nonparticipant | 44 | 41 | 353033 | 4872732 | 371 | |
| 622 | nonparticipant | 35 | 33 | 355110 | 4872432 | 365 | |
| 623 | nonparticipant | 44 | 41 | 353498 | 4871094 | 374 | |
| 624 | nonparticipant | 44 | 41 | 353171 | 4871171 | 372 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|--------|-------------------------------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | LNTE | | |
| | | STE | X (m) | Y (m) | | |
| 625 | nonparticipant | 32 | 30 | 354643 | 4868550 | 376 |
| 626 | nonparticipant | 29 | 27 | 355692 | 4868205 | 370 |
| 627 | nonparticipant | 29 | 27 | 355705 | 4868226 | 370 |
| 628 | nonparticipant | 28 | 27 | 355890 | 4868247 | 371 |
| 629 | nonparticipant | 29 | 27 | 355778 | 4868387 | 371 |
| 630 | nonparticipant | 28 | 26 | 355951 | 4868260 | 371 |
| 631 | nonparticipant | 28 | 26 | 356003 | 4868263 | 371 |
| 632 | nonparticipant | 28 | 26 | 356051 | 4868273 | 371 |
| 633 | nonparticipant | 28 | 26 | 356076 | 4868276 | 371 |
| 634 | nonparticipant | 28 | 26 | 356066 | 4868302 | 372 |
| 635 | nonparticipant | 28 | 26 | 356128 | 4868280 | 370 |
| 636 | nonparticipant | 28 | 26 | 356112 | 4868326 | 370 |
| 637 | nonparticipant | 28 | 26 | 356112 | 4868349 | 370 |
| 638 | nonparticipant | 28 | 26 | 356044 | 4868344 | 371 |
| 639 | nonparticipant | 28 | 27 | 355995 | 4868317 | 372 |
| 640 | nonparticipant | 28 | 27 | 356050 | 4868375 | 370 |
| 641 | nonparticipant | 28 | 27 | 356046 | 4868391 | 370 |
| 642 | nonparticipant | 28 | 27 | 356045 | 4868412 | 369 |
| 643 | nonparticipant | 28 | 26 | 356116 | 4868389 | 369 |
| 644 | nonparticipant | 28 | 27 | 356100 | 4868440 | 368 |
| 645 | nonparticipant | 28 | 26 | 356172 | 4868448 | 368 |
| 646 | nonparticipant | 28 | 26 | 356176 | 4868477 | 368 |
| 647 | nonparticipant | 28 | 26 | 356186 | 4868367 | 368 |
| 648 | nonparticipant | 28 | 26 | 356303 | 4868492 | 368 |
| 649 | nonparticipant | 28 | 26 | 356390 | 4868511 | 369 |
| 650 | nonparticipant | 28 | 27 | 355970 | 4868434 | 372 |
| 651 | nonparticipant | 29 | 27 | 355906 | 4868513 | 370 |
| 652 | nonparticipant | 29 | 27 | 355902 | 4868535 | 370 |
| 653 | nonparticipant | 29 | 27 | 355893 | 4868586 | 370 |
| 654 | nonparticipant | 29 | 27 | 355956 | 4868520 | 370 |
| 655 | nonparticipant | 28 | 27 | 355989 | 4868484 | 369 |
| 656 | nonparticipant | 28 | 27 | 356007 | 4868520 | 368 |
| 657 | nonparticipant | 28 | 27 | 356040 | 4868494 | 368 |
| 658 | nonparticipant | 28 | 27 | 356092 | 4868505 | 368 |
| 659 | nonparticipant | 28 | 27 | 356160 | 4868520 | 368 |
| 660 | nonparticipant | 28 | 27 | 356139 | 4868541 | 368 |
| 661 | nonparticipant | 28 | 26 | 356212 | 4868528 | 369 |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | | |
| | | LNTE | STE | | | |
| 662 | nonparticipant | 28 | 26 | 356262 | 4868539 | 368 |
| 663 | nonparticipant | 28 | 27 | 356203 | 4868559 | 368 |
| 664 | nonparticipant | 28 | 27 | 356206 | 4868592 | 368 |
| 665 | nonparticipant | 28 | 27 | 356230 | 4868596 | 368 |
| 666 | nonparticipant | 28 | 26 | 356282 | 4868604 | 369 |
| 667 | nonparticipant | 28 | 26 | 356251 | 4868605 | 369 |
| 668 | nonparticipant | 28 | 27 | 356097 | 4868534 | 368 |
| 669 | nonparticipant | 28 | 27 | 356030 | 4868540 | 369 |
| 670 | nonparticipant | 29 | 27 | 356027 | 4868567 | 369 |
| 671 | nonparticipant | 29 | 27 | 355940 | 4868594 | 369 |
| 672 | nonparticipant | 29 | 27 | 356018 | 4868599 | 369 |
| 673 | nonparticipant | 29 | 27 | 356015 | 4868632 | 370 |
| 674 | nonparticipant | 29 | 27 | 356011 | 4868647 | 370 |
| 675 | nonparticipant | 29 | 27 | 356066 | 4868631 | 369 |
| 676 | nonparticipant | 28 | 27 | 356138 | 4868631 | 369 |
| 677 | nonparticipant | 28 | 27 | 356190 | 4868643 | 369 |
| 678 | nonparticipant | 28 | 27 | 356219 | 4868645 | 369 |
| 679 | nonparticipant | 28 | 27 | 356265 | 4868655 | 369 |
| 680 | nonparticipant | 28 | 27 | 356265 | 4868681 | 369 |
| 681 | nonparticipant | 29 | 27 | 356132 | 4868668 | 369 |
| 682 | nonparticipant | 29 | 27 | 356131 | 4868692 | 369 |
| 683 | nonparticipant | 28 | 26 | 356318 | 4868612 | 369 |
| 684 | nonparticipant | 28 | 26 | 356339 | 4868628 | 369 |
| 685 | nonparticipant | 28 | 26 | 356427 | 4868604 | 369 |
| 686 | nonparticipant | 28 | 26 | 356408 | 4868633 | 369 |
| 687 | nonparticipant | 28 | 26 | 356331 | 4868663 | 369 |
| 688 | nonparticipant | 28 | 26 | 356383 | 4868682 | 369 |
| 689 | nonparticipant | 28 | 26 | 356421 | 4868689 | 369 |
| 690 | nonparticipant | 28 | 26 | 356457 | 4868686 | 369 |
| 691 | nonparticipant | 28 | 26 | 356366 | 4868697 | 369 |
| 692 | nonparticipant | 28 | 26 | 356446 | 4868715 | 369 |
| 693 | nonparticipant | 28 | 26 | 356494 | 4868564 | 368 |
| 694 | nonparticipant | 28 | 26 | 356498 | 4868606 | 368 |
| 695 | nonparticipant | 29 | 27 | 356392 | 4868940 | 368 |
| 696 | nonparticipant | 29 | 27 | 356392 | 4868989 | 368 |
| 697 | nonparticipant | 29 | 27 | 356422 | 4869067 | 368 |
| 698 | nonparticipant | 29 | 27 | 356382 | 4869063 | 368 |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 699 | nonparticipant | 29 | 27 | 356377 | 4869031 | 368 | |
| 700 | nonparticipant | 29 | 27 | 356327 | 4869052 | 368 | |
| 701 | nonparticipant | 29 | 27 | 356331 | 4869023 | 368 | |
| 702 | nonparticipant | 29 | 27 | 356309 | 4869087 | 368 | |
| 703 | nonparticipant | 29 | 27 | 356374 | 4869101 | 368 | |
| 704 | nonparticipant | 29 | 27 | 356437 | 4869110 | 368 | |
| 705 | nonparticipant | 29 | 27 | 356438 | 4869161 | 368 | |
| 706 | nonparticipant | 29 | 27 | 356390 | 4869157 | 368 | |
| 707 | nonparticipant | 29 | 27 | 356355 | 4869151 | 368 | |
| 708 | nonparticipant | 29 | 27 | 356307 | 4869137 | 368 | |
| 709 | nonparticipant | 29 | 27 | 356302 | 4869170 | 368 | |
| 710 | nonparticipant | 29 | 27 | 356412 | 4869220 | 370 | |
| 711 | nonparticipant | 29 | 28 | 356053 | 4868972 | 369 | |
| 712 | nonparticipant | 29 | 28 | 356080 | 4868980 | 368 | |
| 713 | nonparticipant | 29 | 28 | 356079 | 4869006 | 368 | |
| 714 | nonparticipant | 30 | 28 | 356073 | 4869033 | 368 | |
| 715 | nonparticipant | 30 | 28 | 356055 | 4869050 | 368 | |
| 716 | nonparticipant | 30 | 28 | 356006 | 4868977 | 369 | |
| 717 | nonparticipant | 30 | 28 | 355993 | 4869003 | 369 | |
| 718 | nonparticipant | 30 | 28 | 355994 | 4869031 | 369 | |
| 719 | nonparticipant | 30 | 28 | 355949 | 4868966 | 370 | |
| 720 | nonparticipant | 30 | 28 | 355946 | 4868986 | 370 | |
| 721 | nonparticipant | 30 | 28 | 355947 | 4869008 | 369 | |
| 722 | nonparticipant | 30 | 28 | 355943 | 4869023 | 369 | |
| 723 | nonparticipant | 29 | 28 | 355969 | 4868875 | 371 | |
| 724 | nonparticipant | 30 | 28 | 355889 | 4868864 | 370 | |
| 725 | nonparticipant | 30 | 28 | 355881 | 4868899 | 370 | |
| 726 | nonparticipant | 30 | 28 | 355878 | 4868939 | 370 | |
| 727 | nonparticipant | 30 | 28 | 355870 | 4868966 | 370 | |
| 728 | nonparticipant | 30 | 28 | 355844 | 4868823 | 371 | |
| 729 | nonparticipant | 30 | 28 | 355839 | 4868859 | 371 | |
| 730 | nonparticipant | 30 | 28 | 355839 | 4868894 | 371 | |
| 731 | nonparticipant | 30 | 28 | 355829 | 4868931 | 371 | |
| 732 | nonparticipant | 30 | 28 | 355828 | 4868944 | 371 | |
| 733 | nonparticipant | 30 | 28 | 355807 | 4868818 | 371 | |
| 734 | nonparticipant | 30 | 28 | 355933 | 4869063 | 369 | |
| 735 | nonparticipant | 30 | 28 | 355928 | 4869079 | 369 | |

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|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 736 | nonparticipant | 30 | 28 | 355926 | 4869091 | 369 | |
| 737 | nonparticipant | 30 | 28 | 355917 | 4869113 | 369 | |
| 738 | nonparticipant | 30 | 28 | 355917 | 4869134 | 369 | |
| 739 | nonparticipant | 30 | 28 | 355986 | 4869080 | 368 | |
| 740 | nonparticipant | 30 | 28 | 355980 | 4869124 | 368 | |
| 741 | nonparticipant | 30 | 28 | 355971 | 4869143 | 368 | |
| 742 | nonparticipant | 30 | 28 | 356059 | 4869086 | 368 | |
| 743 | nonparticipant | 30 | 28 | 356057 | 4869101 | 368 | |
| 744 | nonparticipant | 30 | 28 | 356099 | 4869163 | 367 | |
| 745 | nonparticipant | 30 | 28 | 355885 | 4869055 | 370 | |
| 746 | nonparticipant | 30 | 28 | 355860 | 4869054 | 370 | |
| 747 | nonparticipant | 30 | 28 | 355849 | 4869113 | 370 | |
| 748 | nonparticipant | 30 | 28 | 355870 | 4869117 | 370 | |
| 749 | nonparticipant | 30 | 28 | 355807 | 4869058 | 371 | |
| 750 | nonparticipant | 30 | 29 | 355802 | 4869095 | 371 | |
| 751 | nonparticipant | 31 | 29 | 355794 | 4869128 | 371 | |
| 752 | nonparticipant | 31 | 29 | 355782 | 4869165 | 371 | |
| 753 | nonparticipant | 31 | 29 | 355770 | 4869187 | 371 | |
| 754 | nonparticipant | 30 | 29 | 355755 | 4869047 | 372 | |
| 755 | nonparticipant | 31 | 29 | 355711 | 4869040 | 372 | |
| 756 | nonparticipant | 30 | 28 | 355760 | 4868992 | 372 | |
| 757 | nonparticipant | 30 | 29 | 355694 | 4868990 | 372 | |
| 758 | nonparticipant | 31 | 29 | 355689 | 4869183 | 372 | |
| 759 | nonparticipant | 31 | 29 | 355698 | 4869275 | 370 | |
| 760 | nonparticipant | 31 | 29 | 355723 | 4869356 | 370 | |
| 761 | nonparticipant | 31 | 29 | 355751 | 4869319 | 370 | |
| 762 | nonparticipant | 31 | 29 | 355809 | 4869334 | 370 | |
| 763 | nonparticipant | 31 | 29 | 355817 | 4869271 | 370 | |
| 764 | nonparticipant | 31 | 29 | 355843 | 4869284 | 370 | |
| 765 | nonparticipant | 31 | 29 | 355886 | 4869292 | 370 | |
| 766 | nonparticipant | 30 | 29 | 355951 | 4869296 | 368 | |
| 767 | nonparticipant | 30 | 29 | 355935 | 4869318 | 368 | |
| 768 | nonparticipant | 31 | 29 | 355931 | 4869376 | 368 | |
| 769 | nonparticipant | 30 | 29 | 356001 | 4869360 | 368 | |
| 770 | nonparticipant | 30 | 28 | 356005 | 4869310 | 368 | |
| 771 | nonparticipant | 30 | 28 | 356030 | 4869257 | 367 | |
| 772 | nonparticipant | 30 | 28 | 356003 | 4869256 | 367 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 773 | nonparticipant | 30 | 28 | 356012 | 4869188 | 367 | |
| 774 | nonparticipant | 30 | 28 | 356036 | 4869192 | 367 | |
| 775 | nonparticipant | 30 | 28 | 356032 | 4869238 | 367 | |
| 776 | nonparticipant | 30 | 28 | 355964 | 4869180 | 368 | |
| 777 | nonparticipant | 30 | 28 | 355961 | 4869199 | 368 | |
| 778 | nonparticipant | 30 | 28 | 355956 | 4869255 | 368 | |
| 779 | nonparticipant | 30 | 28 | 355911 | 4869176 | 369 | |
| 780 | nonparticipant | 30 | 29 | 355907 | 4869212 | 369 | |
| 781 | nonparticipant | 30 | 29 | 355894 | 4869247 | 369 | |
| 782 | nonparticipant | 31 | 29 | 355823 | 4869224 | 371 | |
| 783 | nonparticipant | 30 | 29 | 355849 | 4869163 | 370 | |
| 784 | nonparticipant | 30 | 28 | 356273 | 4869294 | 369 | |
| 785 | nonparticipant | 29 | 28 | 356327 | 4869308 | 368 | |
| 786 | nonparticipant | 29 | 28 | 356329 | 4869276 | 369 | |
| 787 | nonparticipant | 29 | 28 | 356285 | 4869243 | 368 | |
| 788 | nonparticipant | 30 | 28 | 356217 | 4869348 | 368 | |
| 789 | nonparticipant | 30 | 28 | 356142 | 4869333 | 367 | |
| 790 | nonparticipant | 29 | 27 | 356488 | 4869268 | 367 | |
| 791 | nonparticipant | 29 | 27 | 356488 | 4869322 | 367 | |
| 792 | nonparticipant | 28 | 27 | 356521 | 4869056 | 367 | |
| 793 | nonparticipant | 35 | 33 | 351866 | 4875985 | 366 | |
| 794 | nonparticipant | 25 | 24 | 357345 | 4868269 | 366 | |
| 795 | nonparticipant | 24 | 22 | 358127 | 4868180 | 363 | |
| 796 | nonparticipant | 23 | 21 | 359000 | 4868732 | 358 | |
| 797 | nonparticipant | 29 | 27 | 358409 | 4871152 | 355 | |
| 798 | participant | 20 | 19 | 338161 | 4880092 | 394 | |
| 799 | participant | 25 | 24 | 340457 | 4879785 | 385 | |
| 800 | nonparticipant | 30 | 28 | 342979 | 4879428 | 381 | |
| 801 | participant | 28 | 27 | 342860 | 4879804 | 374 | |
| 802 | participant | 32 | 30 | 344257 | 4879373 | 373 | |
| 803 | nonparticipant | 30 | 28 | 346022 | 4880757 | 383 | |
| 804 | nonparticipant | 35 | 33 | 346353 | 4879521 | 376 | |
| 805 | nonparticipant | 32 | 31 | 347374 | 4880046 | 380 | |
| 806 | nonparticipant | 17 | 16 | 334869 | 4878152 | 423 | |
| 807 | nonparticipant | 18 | 18 | 336665 | 4879160 | 409 | |
| 808 | participant | 25 | 24 | 339609 | 4878853 | 401 | |
| 809 | participant | 26 | 25 | 339876 | 4878698 | 403 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|--------|-------------------------------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | LNTE | | |
| | | STE | X (m) | Y (m) | | |
| 810 | participant | 27 | 26 | 340969 | 4879236 | 393 |
| 811 | nonparticipant | 28 | 27 | 341727 | 4879250 | 382 |
| 812 | nonparticipant | 31 | 29 | 342147 | 4878086 | 389 |
| 813 | participant | 31 | 29 | 343459 | 4879213 | 380 |
| 814 | nonparticipant | 43 | 40 | 346568 | 4878623 | 373 |
| 815 | nonparticipant | 18 | 17 | 334807 | 4877612 | 426 |
| 816 | nonparticipant | 22 | 21 | 336624 | 4877581 | 419 |
| 817 | nonparticipant | 35 | 33 | 342925 | 4877379 | 387 |
| 818 | nonparticipant | 39 | 37 | 348298 | 4877605 | 371 |
| 819 | nonparticipant | 39 | 36 | 349372 | 4876711 | 374 |
| 820 | nonparticipant | 36 | 34 | 349560 | 4877237 | 370 |
| 821 | nonparticipant | 40 | 38 | 350071 | 4876070 | 374 |
| 822 | nonparticipant | 23 | 21 | 334761 | 4875604 | 436 |
| 823 | participant | 26 | 24 | 335312 | 4874792 | 438 |
| 824 | participant | 26 | 24 | 336576 | 4875510 | 421 |
| 825 | nonparticipant | 25 | 23 | 336378 | 4875819 | 423 |
| 826 | participant | 27 | 26 | 336384 | 4874934 | 422 |
| 827 | nonparticipant | 30 | 28 | 336991 | 4874550 | 421 |
| 828 | nonparticipant | 29 | 27 | 336774 | 4874696 | 422 |
| 829 | nonparticipant | 30 | 28 | 338085 | 4874866 | 413 |
| 830 | nonparticipant | 32 | 30 | 339459 | 4874939 | 412 |
| 831 | nonparticipant | 43 | 40 | 344595 | 4874794 | 390 |
| 832 | nonparticipant | 24 | 22 | 333832 | 4873272 | 436 |
| 833 | nonparticipant | 25 | 23 | 334862 | 4874592 | 439 |
| 834 | participant | 26 | 24 | 334958 | 4874215 | 439 |
| 835 | nonparticipant | 27 | 25 | 334586 | 4872932 | 429 |
| 836 | nonparticipant | 35 | 32 | 336162 | 4873279 | 434 |
| 837 | nonparticipant | 37 | 34 | 338786 | 4873051 | 411 |
| 838 | nonparticipant | 40 | 37 | 340983 | 4873020 | 409 |
| 839 | nonparticipant | 37 | 35 | 340423 | 4872948 | 412 |
| 840 | nonparticipant | 43 | 40 | 343945 | 4872887 | 405 |
| 841 | participant | 40 | 37 | 345816 | 4872706 | 392 |
| 842 | nonparticipant | 40 | 38 | 345892 | 4872903 | 392 |
| 843 | nonparticipant | 39 | 36 | 338174 | 4872453 | 418 |
| 844 | nonparticipant | 41 | 38 | 338637 | 4871428 | 416 |
| 845 | nonparticipant | 39 | 36 | 339725 | 4871223 | 408 |
| 847 | nonparticipant | 39 | 36 | 341617 | 4872198 | 407 |

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|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 848 | nonparticipant | 37 | 35 | 340697 | 4872553 | 410 | |
| 849 | nonparticipant | 42 | 39 | 345132 | 4871418 | 401 | |
| 850 | nonparticipant | 41 | 38 | 345666 | 4871176 | 401 | |
| 851 | nonparticipant | 40 | 38 | 345635 | 4871615 | 397 | |
| 853 | nonparticipant | 43 | 40 | 347220 | 4871377 | 394 | |
| 854 | nonparticipant | 44 | 41 | 349219 | 4872327 | 381 | |
| 856 | nonparticipant | 27 | 25 | 334781 | 4871010 | 440 | |
| 857 | participant | 27 | 26 | 335152 | 4870543 | 436 | |
| 858 | participant | 28 | 26 | 335176 | 4870542 | 436 | |
| 859 | nonparticipant | 33 | 30 | 337070 | 4869855 | 436 | |
| 860 | nonparticipant | 32 | 30 | 337119 | 4869638 | 436 | |
| 861 | nonparticipant | 41 | 38 | 338904 | 4871049 | 407 | |
| 862 | nonparticipant | 34 | 32 | 340446 | 4869737 | 412 | |
| 863 | nonparticipant | 33 | 31 | 341233 | 4869865 | 411 | |
| 864 | nonparticipant | 38 | 36 | 342758 | 4870493 | 407 | |
| 865 | nonparticipant | 37 | 34 | 342923 | 4869891 | 409 | |
| 866 | nonparticipant | 42 | 39 | 349266 | 4870209 | 389 | |
| 867 | nonparticipant | 25 | 23 | 334947 | 4869374 | 441 | |
| 868 | nonparticipant | 32 | 29 | 337953 | 4868597 | 432 | |
| 869 | nonparticipant | 38 | 35 | 338227 | 4869503 | 429 | |
| 870 | nonparticipant | 32 | 29 | 338448 | 4868102 | 429 | |
| 871 | nonparticipant | 32 | 30 | 338518 | 4868105 | 426 | |
| 872 | nonparticipant | 35 | 32 | 339725 | 4868307 | 415 | |
| 873 | nonparticipant | 29 | 27 | 336967 | 4868688 | 435 | |
| 874 | nonparticipant | 38 | 35 | 338219 | 4869504 | 429 | |
| 875 | nonparticipant | 33 | 31 | 341232 | 4869013 | 415 | |
| 876 | nonparticipant | 33 | 31 | 341232 | 4869013 | 415 | |
| 877 | nonparticipant | 36 | 34 | 344669 | 4868346 | 398 | |
| 878 | nonparticipant | 36 | 34 | 344721 | 4868250 | 405 | |
| 879 | nonparticipant | 36 | 34 | 344634 | 4868277 | 396 | |
| 880 | nonparticipant | 35 | 33 | 344647 | 4868236 | 399 | |
| 881 | nonparticipant | 35 | 33 | 344664 | 4868206 | 402 | |
| 882 | nonparticipant | 35 | 33 | 344679 | 4868180 | 404 | |
| 883 | nonparticipant | 35 | 33 | 344691 | 4868155 | 405 | |
| 884 | nonparticipant | 35 | 33 | 344708 | 4868129 | 407 | |
| 885 | nonparticipant | 35 | 33 | 344749 | 4868074 | 407 | |
| 886 | nonparticipant | 35 | 33 | 344752 | 4868013 | 406 | |

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|-------------|----------------------|----------------------------|-----|---------------------|-------------------------------|-------|-------------------------------|
| | | GE 6.1-158, HH 117 m | | V 6.0-162, HH 119 m | X (m) | Y (m) | |
| | | LNTE | STE | | | | |
| 887 | nonparticipant | 35 | 33 | 344761 | 4867974 | 405 | |
| 888 | nonparticipant | 35 | 33 | 344773 | 4867945 | 405 | |
| 889 | nonparticipant | 35 | 33 | 344846 | 4868005 | 404 | |
| 890 | nonparticipant | 35 | 33 | 344907 | 4867995 | 402 | |
| 891 | nonparticipant | 36 | 34 | 344933 | 4868048 | 404 | |
| 892 | nonparticipant | 36 | 33 | 344905 | 4868049 | 405 | |
| 893 | nonparticipant | 35 | 33 | 344872 | 4868050 | 405 | |
| 894 | nonparticipant | 36 | 33 | 344892 | 4868073 | 405 | |
| 895 | nonparticipant | 35 | 33 | 344795 | 4867894 | 404 | |
| 896 | nonparticipant | 35 | 33 | 344803 | 4867873 | 404 | |
| 897 | nonparticipant | 35 | 33 | 344805 | 4867852 | 403 | |
| 898 | nonparticipant | 35 | 33 | 344812 | 4867827 | 401 | |
| 899 | nonparticipant | 35 | 33 | 344828 | 4867812 | 401 | |
| 900 | nonparticipant | 35 | 33 | 344949 | 4867811 | 400 | |
| 901 | nonparticipant | 35 | 33 | 344887 | 4867861 | 401 | |
| 902 | nonparticipant | 35 | 33 | 344887 | 4867891 | 401 | |
| 903 | nonparticipant | 35 | 33 | 345021 | 4867901 | 400 | |
| 904 | nonparticipant | 35 | 33 | 344998 | 4867808 | 400 | |
| 905 | nonparticipant | 35 | 33 | 345080 | 4867809 | 400 | |
| 906 | nonparticipant | 35 | 33 | 345110 | 4867806 | 400 | |
| 907 | nonparticipant | 35 | 33 | 345136 | 4867810 | 400 | |
| 908 | nonparticipant | 36 | 33 | 345156 | 4867808 | 399 | |
| 909 | nonparticipant | 36 | 34 | 345205 | 4867815 | 397 | |
| 910 | nonparticipant | 36 | 34 | 345155 | 4867859 | 399 | |
| 911 | nonparticipant | 36 | 33 | 345113 | 4867871 | 399 | |
| 912 | nonparticipant | 36 | 34 | 345144 | 4867902 | 399 | |
| 913 | nonparticipant | 36 | 34 | 345161 | 4867967 | 398 | |
| 914 | nonparticipant | 36 | 34 | 345161 | 4867998 | 398 | |
| 915 | nonparticipant | 36 | 34 | 345124 | 4867997 | 398 | |
| 916 | nonparticipant | 36 | 34 | 345213 | 4868052 | 396 | |
| 917 | nonparticipant | 37 | 34 | 345307 | 4868046 | 395 | |
| 918 | nonparticipant | 37 | 35 | 345355 | 4868046 | 395 | |
| 919 | nonparticipant | 37 | 35 | 345499 | 4868043 | 395 | |
| 920 | nonparticipant | 38 | 35 | 345548 | 4868047 | 395 | |
| 921 | nonparticipant | 37 | 35 | 345419 | 4868097 | 394 | |
| 922 | nonparticipant | 37 | 35 | 345422 | 4868130 | 394 | |
| 923 | nonparticipant | 38 | 35 | 345479 | 4868127 | 394 | |

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| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|--------|-------------------------------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | LNTE | | |
| | | STE | X (m) | Y (m) | | |
| 924 | nonparticipant | 38 | 35 | 345482 | 4868161 | 394 |
| 925 | nonparticipant | 38 | 35 | 345467 | 4868172 | 394 |
| 926 | nonparticipant | 38 | 35 | 345442 | 4868188 | 394 |
| 927 | nonparticipant | 37 | 35 | 345411 | 4868192 | 394 |
| 928 | nonparticipant | 38 | 35 | 345411 | 4868201 | 394 |
| 929 | nonparticipant | 36 | 34 | 345060 | 4868051 | 399 |
| 930 | nonparticipant | 36 | 34 | 345032 | 4868050 | 401 |
| 931 | nonparticipant | 36 | 34 | 345006 | 4868052 | 402 |
| 932 | nonparticipant | 36 | 34 | 344982 | 4868051 | 403 |
| 933 | nonparticipant | 36 | 34 | 344959 | 4868051 | 403 |
| 934 | nonparticipant | 36 | 33 | 344979 | 4868001 | 401 |
| 935 | nonparticipant | 36 | 34 | 345003 | 4868001 | 400 |
| 936 | nonparticipant | 35 | 33 | 345082 | 4867861 | 399 |
| 937 | nonparticipant | 38 | 36 | 345108 | 4868670 | 394 |
| 938 | nonparticipant | 39 | 37 | 345101 | 4869058 | 397 |
| 939 | nonparticipant | 40 | 37 | 345073 | 4869116 | 396 |
| 940 | nonparticipant | 39 | 37 | 345842 | 4868063 | 398 |
| 941 | nonparticipant | 40 | 38 | 349380 | 4868208 | 396 |
| 942 | nonparticipant | 38 | 35 | 339407 | 4866737 | 429 |
| 943 | nonparticipant | 40 | 37 | 339495 | 4867354 | 424 |
| 944 | nonparticipant | 29 | 27 | 338320 | 4866355 | 436 |
| 945 | nonparticipant | 40 | 37 | 339495 | 4867354 | 424 |
| 946 | nonparticipant | 40 | 37 | 340056 | 4866386 | 426 |
| 947 | nonparticipant | 37 | 34 | 340891 | 4866430 | 422 |
| 948 | nonparticipant | 34 | 31 | 341412 | 4866409 | 418 |
| 950 | nonparticipant | 32 | 30 | 341834 | 4866663 | 416 |
| 951 | nonparticipant | 30 | 29 | 342614 | 4866948 | 410 |
| 952 | nonparticipant | 30 | 29 | 342664 | 4866947 | 411 |
| 953 | nonparticipant | 30 | 28 | 343379 | 4866634 | 411 |
| 954 | nonparticipant | 39 | 37 | 346917 | 4867222 | 402 |
| 955 | nonparticipant | 39 | 36 | 346902 | 4867214 | 402 |
| 957 | nonparticipant | 38 | 35 | 346601 | 4867154 | 403 |
| 958 | nonparticipant | 38 | 35 | 346574 | 4867159 | 403 |
| 959 | nonparticipant | 37 | 35 | 346504 | 4867107 | 403 |
| 960 | nonparticipant | 23 | 21 | 336434 | 4866082 | 431 |
| 961 | nonparticipant | 25 | 23 | 338235 | 4864957 | 430 |
| 962 | nonparticipant | 25 | 23 | 338247 | 4864948 | 430 |

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Noise Assessment Report

| Receptor ID | Participation Status | Sound Pressure Level (dBA) | | | Coordinates (UTM NAD83 Z 15N) | Elevation (ground + 4 meters) |
|-------------|----------------------|----------------------------|---------------------|--------|-------------------------------|-------------------------------|
| | | GE 6.1-158, HH 117 m | V 6.0-162, HH 119 m | LNTE | | |
| | | STE | X (m) | Y (m) | | |
| 963 | nonparticipant | 26 | 24 | 358896 | 4873681 | 351 |
| 964 | nonparticipant | 25 | 24 | 359309 | 4870901 | 357 |
| 965 | nonparticipant | 22 | 21 | 358521 | 4867711 | 360 |
| 966 | nonparticipant | 25 | 24 | 358569 | 4869565 | 359 |
| 967 | nonparticipant | 23 | 22 | 359166 | 4869438 | 357 |
| 969 | nonparticipant | 42 | 39 | 352433 | 4874356 | 371 |
| 970 | nonparticipant | 41 | 38 | 352474 | 4869517 | 382 |
| 971 | nonparticipant | 42 | 40 | 344430 | 4869517 | 393 |
| 973 | nonparticipant | 25 | 23 | 338242 | 4864932 | 430 |
| 974 | nonparticipant | 42 | 39 | 353841 | 4871109 | 372 |
| 975 | nonparticipant | 33 | 31 | 344236 | 4867651 | 400 |
| 976 | nonparticipant | 33 | 31 | 344270 | 4867644 | 400 |
| 977 | nonparticipant | 33 | 31 | 344307 | 4867641 | 399 |
| 978 | nonparticipant | 33 | 31 | 344344 | 4867638 | 398 |
| 979 | nonparticipant | 33 | 31 | 344230 | 4867580 | 401 |
| 980 | nonparticipant | 33 | 31 | 344283 | 4867533 | 402 |
| 981 | nonparticipant | 33 | 31 | 344286 | 4867500 | 403 |
| 982 | nonparticipant | 33 | 31 | 344256 | 4867479 | 403 |
| 983 | nonparticipant | 32 | 31 | 344454 | 4867197 | 405 |
| 984 | nonparticipant | 32 | 30 | 345598 | 4866341 | 405 |

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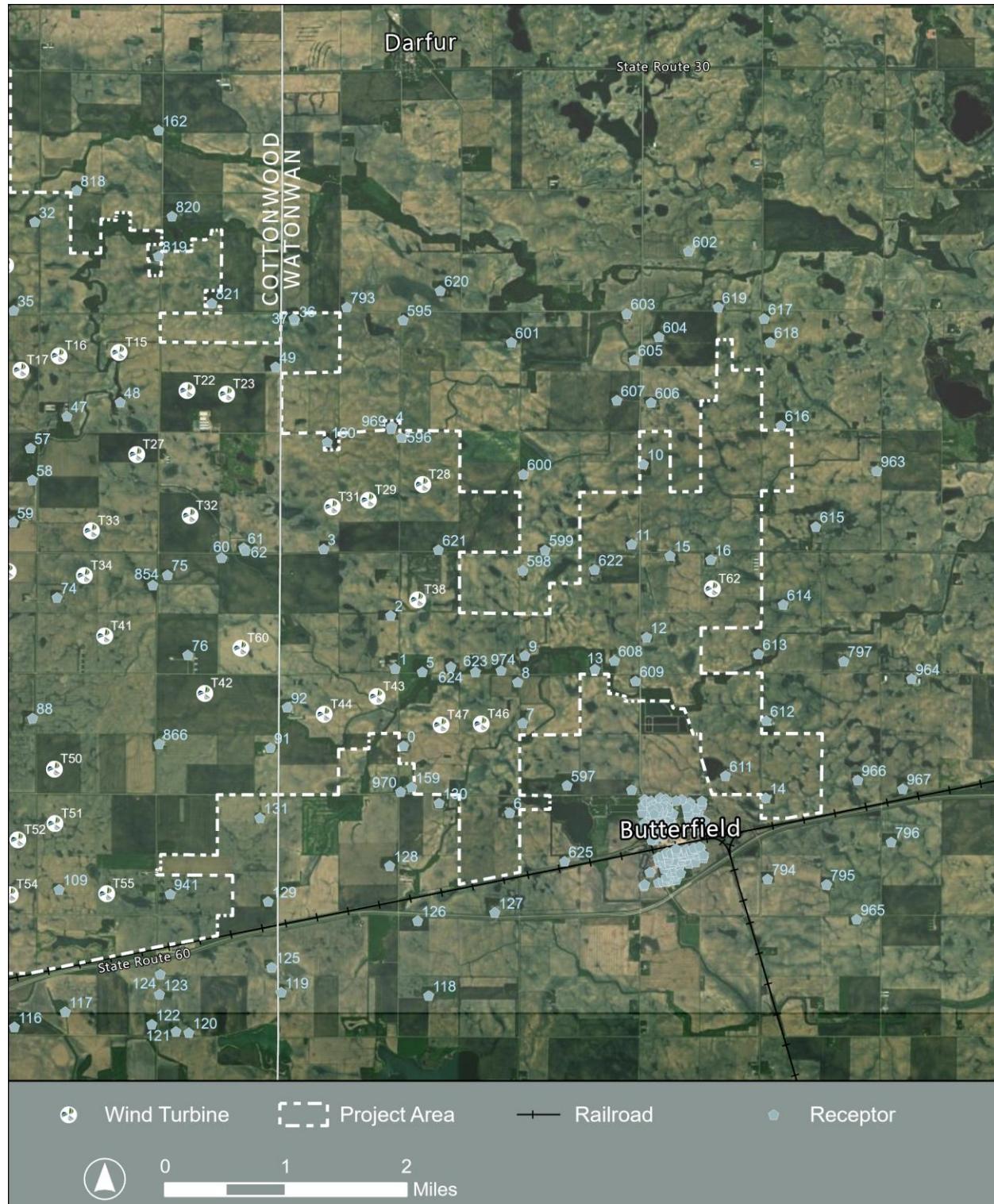


Figure 5: Receptor Map, Eastern Area

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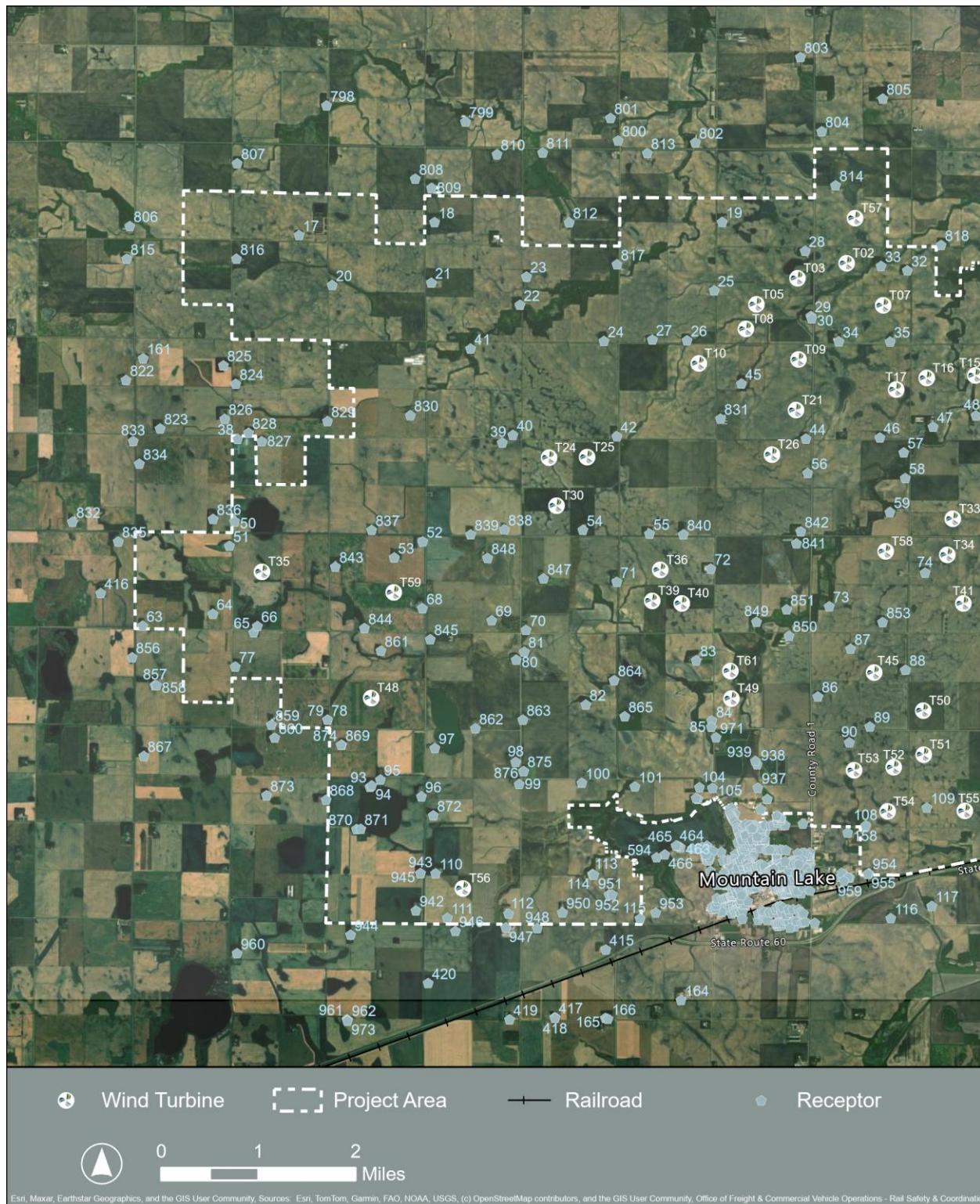


Figure 6: Receptor Map, Western Area

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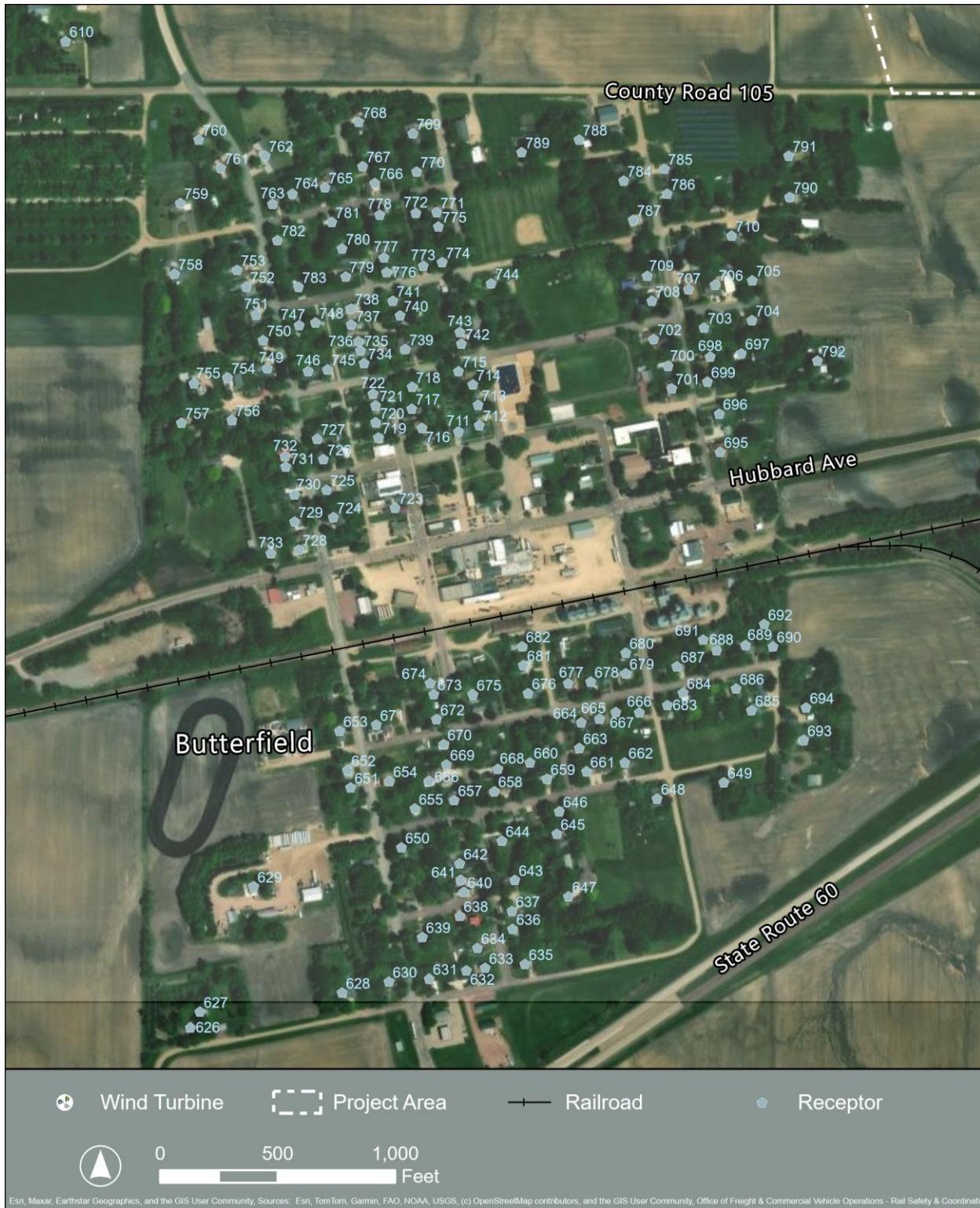


Figure 7: Receptor Map, Butterfield Area

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Figure 8: Receptor Map, Mountain Lake Area

Appendix E: Qualifications

Paxwood Acoustics provides professional consulting services in acoustics and noise control engineering with a focus on environmental permitting and compliance. Eddie Duncan, Principal Consultant, is a Board-Certified Noise Control Engineer (#09002) through the Institute of Noise Control Engineering and is a member of the Acoustical Society of America. Mr. Duncan has been practicing acoustic consulting for over 20 years. In that time, he has managed over 400 acoustics projects and has worked on 120+ wind power projects, 85+ solar projects, and 70+ transmission projects. He has also managed noise assessments for a growing portfolio of BESS projects which have often been a component of other renewable energy projects.

Prior to starting Paxwood Acoustics, Mr. Duncan was a Senior Director at RSG where he prepared the report for the 2021 Noise Assessment of Big Bend Wind.

Appendix F: Section 5, Sound Level Monitoring of the 2021 Noise Assessment

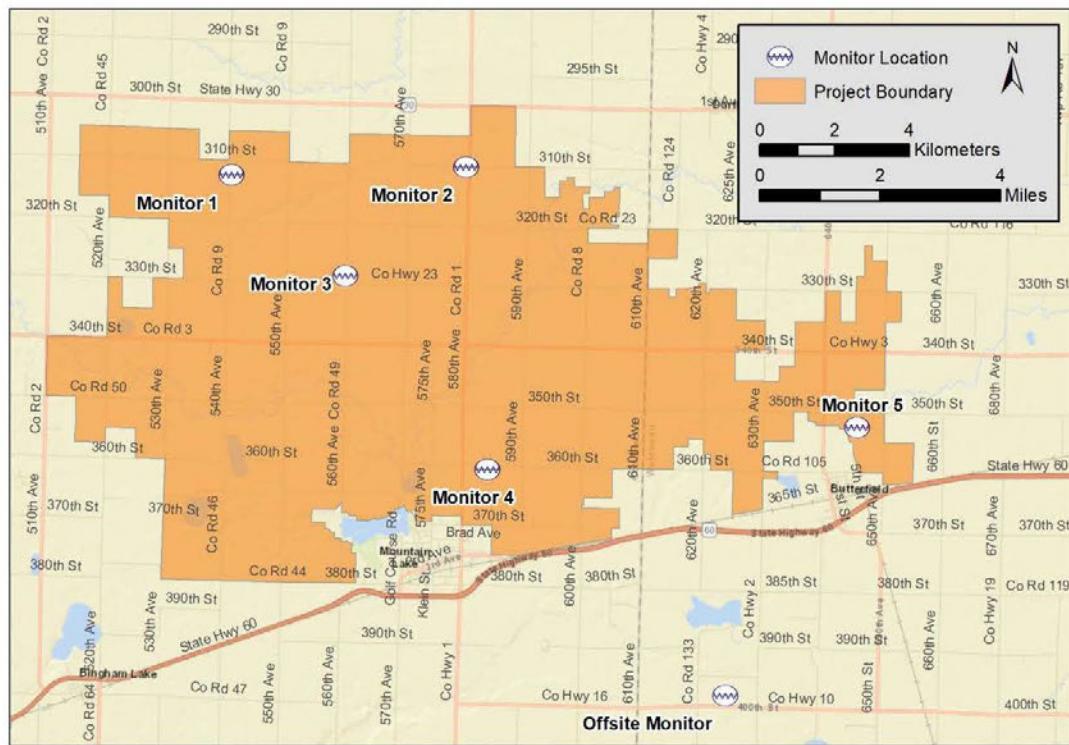
This appendix contains Section 5 of the 2021 Noise Assessment that was conducted by RSG. It was not written by Paxwood Acoustics, but as part of a public document, it is provided here as a quick reference to the background sound levels measured in the Project area.

Revised Noise Assessment, Big Bend Wind Project

5.0 SOUND LEVEL MONITORING

5.1 MONITORING PROCEDURES

Background sound level monitoring was conducted from November 12 to November 21, 2019 throughout the Project area to quantify the existing sound levels, including the nighttime L_{50} , and to identify existing sources of sound. Monitoring locations were selected per the guidance provided in the Department of Commerce's "Guidance for Large Wind Energy Conversion System Noise Study Protocol and Report," July 2019. The guidance recommends a minimum of three locations within the Project area. For this Project there were a total of five onsite locations and one offsite monitor. The guidance also recommends that one monitor location be in proximity to the worst-case modeled receptor. Monitors 2 and 3 are representative of the worst-case Project sound levels. A map of all the monitor locations is provided in Figure 6, and each monitor location is described further in Section 5.2.



Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermapper, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

FIGURE 6: MAP OF BACKGROUND SOUND MONITOR LOCATIONS

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Equipment

Background sound level monitoring was performed with ANSI/IEC Class 1 Cesva SC310, Cirrus CR:171B, and Svantek 979 sound level meters with a minimum frequency range of 20 Hz to 10 kHz. Meters were set to log, at a minimum, 1/3 octave band sound levels once each second for the entire measurement period. Sound level meter microphones were mounted on wooden stakes at a height of approximately 1.5 meters (5 feet) and covered with 180 mm (7 inch) windscreens to minimize the impact of wind-caused distortion on measurements. The sound level meters either had internal audio recording or were connected to Edirol audio recorders, recording audio data at a minimum resolution of 96 kbps in .mp3 format. Before and after the measurement periods, the meters were calibrated with a B&K 4231 calibrator. The monitoring equipment meets LWECS Guidance.

A list of the equipment used at each monitor is shown in Table 3. At each site, an ONSET anemometer was located at microphone height. At Monitor 5, a wind direction sensor was also included in the setup. Monitor 3 also logged temperature and relative humidity. Wind data was logged at a rate of once each minute. Regional precipitation periods were collected from the FAA automated weather station KMVW in Windom, MN, about 12 miles to the southwest.

TABLE 3: SOUND MONITOR EQUIPMENT SPECIFICATIONS BY SITE

| Monitor Location | Sound Level Meter | 1/3 Octave Band Frequency Range | Audio Recorder | Weather Station |
|------------------|-------------------|---------------------------------|----------------|---|
| Monitor 1 | Cesva SC310 | 10 Hz – 20 kHz | Edirol R-05 | ONSET HOBO Wind Speed Sensor |
| Monitor 2 | Cesva SC310 | 20 Hz – 10 kHz | Edirol R-05 | ONSET HOBO Wind Speed Sensor |
| Monitor 3 | Svantek 979 | 0.8 Hz – 20 kHz | Internal | ONSET HOBO Wind Speed and Temperature Sensors |
| Monitor 4 | Cirrus CR: 171B | 6.3 Hz – 20 kHz | Edirol R-05 | ONSET HOBO Wind Speed Sensor |
| Monitor 5 | Cirrus CR: 171B | 6.3 Hz – 20 kHz | Edirol R-05 | ONSET HOBO Wind Speed and Direction Sensors |
| Offsite | Cesva SC310 | 10 Hz – 20 kHz | Edirol R-05 | ONSET HOBO Wind Speed Sensor |

Data Processing

For each period A-, C-, and Z-weighted equivalent average sound levels (L_{eq}) were calculated. For A- and C-weighted sound levels, the L_{10} , L_{50} , and L_{90} statistical sound levels were also calculated.

A second set of data was also generated with periods removed from the data that either contained anomalous sound events or periods with conditions that could lead to false sound level readings.

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Periods that were removed from the sound level data included:

- Wind speeds above 11 mph (5 m/s),
- Precipitation and thunderstorm events, and
- Personnel and animal interaction with equipment.

5.2 MONITOR LOCATION DESCRIPTIONS

Monitor 1

Monitor 1 was located at the edge of a field in the northwest corner of the Project area. The monitor was located 250 feet east of County Road 9 (540th Ave.), and 1,360 feet south of 310th Street. The nearest residence was a farm approximately 700 feet south of the monitor. The area around the monitor is largely agricultural with scattered farm residences, although little farming was being done at the time of the monitoring. A photograph of the monitor setup is provided in Figure 7, and a map of the surrounding area is shown in Figure 8.



FIGURE 7: PHOTOGRAPH OF MONITOR 1 LOOKING TO THE SOUTH

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FIGURE 8: AERIAL VIEW OF MONITOR 1 AND THE SURROUNDING AREA

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Monitor 2

Monitor 2 was located at a farm residence in the northern portion of the Project area. The monitor was located approximately 115 feet south of 310th Street, and 300 feet west of County Road 1 (580th Ave.). The area around the monitor is largely agricultural with scattered farm residences. The monitor was placed just west of a wind break. A photograph of the monitor setup is provided in Figure 9, and a map of the surrounding area is shown in Figure 10.



FIGURE 9: PHOTOGRAPH OF MONITOR 2 LOOKING TO THE NORTH

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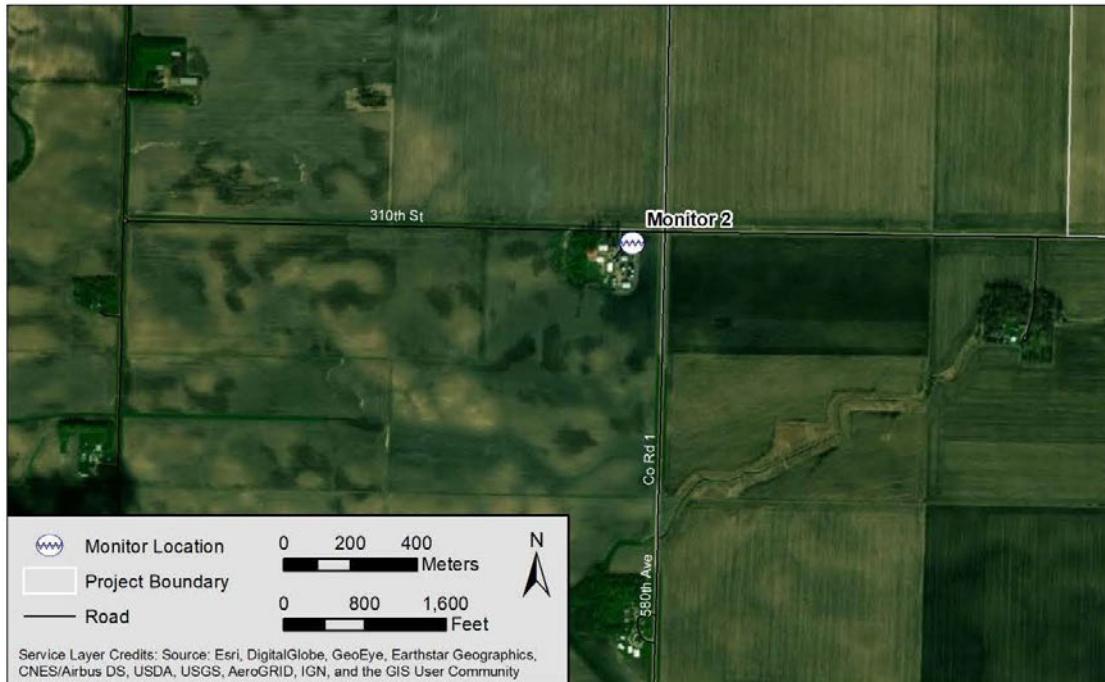


FIGURE 10: AERIAL VIEW OF MONITOR 2 AND THE SURROUNDING AREA

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Monitor 3

Monitor 3 was located at a farm residence in the middle of the Project area. The monitor was located approximately 150 feet west of County Road 49, and 545 feet north of County Highway 23 (330th St.). The area around the monitor is largely agricultural with scattered farm residences. The monitor was located approximately 100 feet north-northeast of a large outbuilding and 320 feet north of the farm residence. A photograph of the monitor setup is provided in Figure 11, and a map of the surrounding area is shown in Figure 12.



FIGURE 11: PHOTOGRAPH OF MONITOR 3 LOOKING TO THE SOUTH

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FIGURE 12: AERIAL VIEW OF MONITOR 3 AND THE SURROUNDING AREA

Revised Noise Assessment, Big Bend Wind Project**Monitor 4**

Monitor 4 was located at a farm residence in the southern portion of the Project area. The monitor was located approximately 460 feet south of 360th Street and 2,200 feet east of Country Road 1. The area around the monitor is largely agricultural with scattered farm residences. Mountain Lake is located approximately 1.25 miles southwest of the monitor location. The monitor was located approximately 70 feet north-northeast of an outbuilding, and 170 feet north of a larger outbuilding. A photograph of the monitor setup is provided in Figure 13, and a map of the surrounding area is shown in Figure 14.

**FIGURE 13: PHOTOGRAPH OF MONITOR 4 LOOKING TO THE SOUTH**

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FIGURE 16: AERIAL VIEW OF MONITOR 5 AND THE SURROUNDING AREA

Revised Noise Assessment, Big Bend Wind Project**Offsite Monitor**

The offsite monitor was located at the edge of a field south-southeast of the Project area, over 4 miles from the nearest proposed turbine. The monitor was located just approximately 865 feet north of County Highway 10 (400th Street) and about half a mile east of County Road 133 (620th Ave.) The area around the monitor is primarily agricultural with scattered farm residences. The closest residence was approximately 760 feet south-southwest of the monitor. A photograph of the monitor setup is provided in Figure 17, and a map of the surrounding area is shown in Figure 18.



FIGURE 17: PHOTOGRAPH OF THE OFFSITE MONITOR LOOKING TO THE SOUTHEAST

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FIGURE 18: AERIAL VIEW OF THE OFFSITE MONITOR AND THE SURROUNDING AREA

5.3 MONITORING RESULTS

For each monitor site, sound level time-history monitoring results are presented in a single chart in this report section. Each chart contains hourly sound levels, gust wind speed measured adjacent to each microphone, “hub height” average wind speed, precipitation events, and indications of data exclusions in conformance with LWECS Guidance. Points on the sound level graph represent data summarized for a single one-hour interval. The top portion of the chart displays A-weighted sound levels, the middle portion presents C-weighted levels, and the bottom portion shows wind speeds and times when there were data exclusions. All portions of the chart indicate day/night by shading: night is defined as 22:00 to 07:00 and shaded in grey.

The specific sound level metrics reported are L_{eq} , L_{90} , L_{50} , and L_{10} . Equivalent continuous sound levels (L_{eq}) are the energy-average level over one hour. Tenth-percentile sound levels (L_{90}) are the statistical value above which 90% of the sound levels occurred during one hour. Fiftieth-percentile sound levels (L_{50}) represent the median sound level of that one-hour period. Ninetieth-percentile sound levels (L_{10}) are the statistical value above which 10% of the sound levels occurred during one hour. Data that were excluded from processing (e.g., due to high wind and rain periods) are included in the graphs but shown in lighter colors. Furthermore, rectangular markers on the lower portion of the chart indicate periods for which data was

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excluded and designate if the period was eliminated as a result of rain, wind gusts over 11 mph, or anomalous events.

Sound level data and wind gust data presented in the charts are those measured at each corresponding site. Wind data from the monitoring location, measured at the microphone height of 1.5 meters (5 feet), are presented as the maximum gust speed occurring at any time over a 10-minute interval; they are not averaged. The average 10-minute hub height wind speed extrapolated from the Project met-tower closest to the monitoring location is also displayed on the chart. Lastly, regional one-hour precipitation totals, as reported by KMWM in Windom, MN, are plotted with respect to the secondary axis on the right-hand side of the chart. Note that the precipitation may not line up exactly with precipitation exclusions because the airport is approximately 12 miles southwest of the project site and some localized rain events were not registered at the airport.

Lastly, one-third octave band statistical sound level results are also presented for periods when a representative wind speed (9 m/s) existed at a height of 109 meters (358 feet). This condition reflects the wind conditions that would result in turbines producing near maximum sound power (9 m/s wind speed or greater at hub height). Only periods with this representative wind speed were used for the unweighted statistical one-third octave band metrics in the figures, providing a baseline for direct comparison with post-construction measurements. Each vertical orange and grey bar shows the lower 10th, median, and upper 10th percentile (L_{90} , L_{50} , and L_{10}) sound level for a single 1/3 octave band. The top of the orange bar is the upper 10th percentile sound pressure level, the white dot is the median, and the bottom of the grey bar is the lower 10th percentile sound level. The entire length of the bar indicates the middle 80th percentile of sound pressure levels. The blue dots indicate the equivalent continuous sound pressure level (L_{eq}) for that 1/3 octave band. At the far right of the chart are the A-, C-, and Z-weighted overall levels.

Results Summary

Exclusion Periods

Periods were excluded at each monitor through both manual identification and automated processing. Manual processing included the review of spectrograms created from the measured one-second one-third octave band data, accompanied by audio recordings made through the sound level meter's microphone. In this way, typical sources and anomalous events were identified.

Exact rain periods were manually identified from the spectrogram to ensure that data during rain events at each monitor were excluded. Automated processing of wind speed permitted the identification of gusts above 5 m/s (11.2 mph) on a one-minute basis. That is, if a gust within a specific one-minute period was measured above 5 m/s (11.2 mph), then that whole minute was eliminated.

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A summary of each monitor's total runtime and the amount of time excluded from the reported sound levels for rain, wind, and anomalous events are shown in Table 4.

TABLE 4: SUMMARY OF EXCLUSION PERIODS AT EACH MONITOR

| Location | Run-Time (hr) | Exclusion Statistics | | | | | | | |
|----------------|------------------|----------------------|------|------|------|-----------|------|-------|------|
| | | Rain | | Wind | | Anomalies | | Total | |
| | (hr) | (%) | (hr) | (%) | (hr) | (%) | (hr) | (%) | |
| 1 | 210 | 27.4 | 13.1 | 54.6 | 26.0 | 11.4 | 5.4 | 87.3 | 41.6 |
| 2 | 210 | 27.4 | 13.1 | 34.7 | 16.5 | 7.8 | 3.7 | 64.8 | 30.9 |
| 3 | 210 | 27.4 | 13.1 | 25.8 | 12.3 | 0.2 | 0.1 | 50.8 | 24.2 |
| 4 | 210 | 27.4 | 13.1 | 68.4 | 32.6 | 8.9 | 4.3 | 95.3 | 45.4 |
| 5 | 215 | 26.3 | 12.2 | 25.8 | 12.0 | 0.4 | 0.2 | 53.1 | 24.7 |
| Offsite | 214 | 26.3 | 12.3 | 46.1 | 21.5 | 0.4 | 0.2 | 71.5 | 33.4 |

Overall Sound Levels

The A-weighted sound levels are listed for all seven sites in Table 5, and the C-weighted sound levels are listed Table 6. The reported levels represent all valid periods, that is, all periods that were not excluded due to weather or anomalous activity, as discussed in the previous section. In both tables, the equivalent continuous levels (L_{eq}) at night are less than (or equal to) daytime levels at all sites except at Monitor 1, which is typical and indicate the influence of human activity on the measured sound levels during the day.

As shown in Table 5, the average nighttime L_{50} across all the onsite monitors was 33 dBA with more rural locations (Monitors 1, 2, and 3) resulting in slightly lower levels and less rural locations (Monitors 4 and 5) having slightly higher levels.

TABLE 5: PRECONSTRUCTION MONITORING SUMMARY (A-WEIGHTED RESULTS)

| Location | Sound Levels (dBA) | | | | | | | | | | | |
|-----------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Overall | | | | Day | | | | Night | | | |
| | L_{eq} | L_{90} | L_{50} | L_{10} | L_{eq} | L_{90} | L_{50} | L_{10} | L_{eq} | L_{90} | L_{50} | L_{10} |
| Monitor 1 | 48 | 25 | 35 | 46 | 44 | 27 | 36 | 45 | 50 | 23 | 32 | 55 |
| Monitor 2 | 50 | 26 | 37 | 53 | 51 | 31 | 40 | 54 | 47 | 23 | 31 | 50 |
| Monitor 3 | 46 | 25 | 34 | 48 | 48 | 27 | 36 | 51 | 39 | 23 | 31 | 42 |
| Monitor 4 | 42 | 28 | 39 | 46 | 43 | 32 | 40 | 46 | 42 | 26 | 36 | 46 |
| Monitor 5 | 42 | 31 | 38 | 46 | 43 | 31 | 39 | 47 | 41 | 31 | 36 | 42 |
| Onsite Average | 46 | 27 | 36 | 48 | 46 | 29 | 38 | 48 | 44 | 25 | 33 | 47 |
| Offsite | 41 | 28 | 35 | 42 | 42 | 30 | 36 | 42 | 38 | 26 | 33 | 41 |

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TABLE 6: PRECONSTRUCTION MONITORING SUMMARY (C-WEIGHTED RESULTS)

| Location | Sound Levels (dBc) | | | | | | | | | | | |
|-----------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Overall | | | | Day | | | | Night | | | |
| | L _{eq} | L ₉₀ | L ₅₀ | L ₁₀ | L _{eq} | L ₉₀ | L ₅₀ | L ₁₀ | L _{eq} | L ₉₀ | L ₅₀ | L ₁₀ |
| Monitor 1 | 57 | 44 | 52 | 61 | 57 | 45 | 53 | 61 | 57 | 44 | 51 | 61 |
| Monitor 2 | 59 | 40 | 49 | 60 | 61 | 44 | 51 | 62 | 55 | 38 | 45 | 56 |
| Monitor 3 | 62 | 41 | 50 | 59 | 63 | 44 | 51 | 62 | 52 | 39 | 46 | 55 |
| Monitor 4 | 57 | 45 | 54 | 60 | 57 | 48 | 55 | 60 | 56 | 43 | 52 | 59 |
| Monitor 5 | 56 | 44 | 52 | 59 | 57 | 46 | 54 | 60 | 54 | 42 | 50 | 57 |
| Onsite Average | 58 | 43 | 52 | 60 | 59 | 45 | 53 | 61 | 55 | 41 | 49 | 58 |
| Offsite | 58 | 45 | 53 | 58 | 60 | 46 | 53 | 59 | 55 | 44 | 52 | 58 |

Meteorology

As discussed above, local meteorological data was collected from anemometers alongside the monitors, Project met towers, and the Windom Airport ASOS station (KMWM). According to the temperature sensor at Monitor 3, local temperatures ranged from -8.9°C to 11.0°C (16°F to 52°F) during the monitoring period. According to KMWM, precipitation events took place on November 18th and 20th. Based on review of the spectrograms, a precipitation event was also identified on November 16th that lasted into the 17th. All of the monitor sites had a light layer of snow on the ground during the monitor setup, but the snow had melted by the end of the monitoring period.

A summary of the 1.5-meter (5-foot) wind speeds measured at each monitoring location over the deployment period at each site is provided in Table 7.

TABLE 7: SUMMARY OF MEASURED 1.5-METER (5-FOOT) WIND SPEEDS

| Location | Measured 1.5-meter Wind (mph) | | | |
|----------------|-------------------------------|---------|-------------------|---------|
| | 10-min Wind Speed | | 10-min Gust Speed | |
| | Average | Maximum | Average | Maximum |
| 1 | 4.3 | 11.0 | 9.0 | 22.5 |
| 2 | 3.0 | 19.4 | 5.7 | 31.5 |
| 3 | 2.9 | 14.8 | 6.6 | 24.8 |
| 4 | 5.7 | 18.6 | 10.2 | 29.9 |
| 5 | 2.9 | 14.8 | 6.6 | 24.8 |
| Offsite | 5.0 | 16.8 | 9.2 | 28.7 |

Revised Noise Assessment, Big Bend Wind Project**Monitor 1**

Monitoring results for Monitor 1 are presented in Figure 19. The primary noise sources at this location were occasional car passbys, biogenic sounds (birds especially), aircraft overflights, occasional distant agricultural equipment, and wind rustling through trees. The location's sound levels generally exhibited a diurnal pattern. It also had the second greatest amount of wind exclusions during the monitoring period. The quietest nighttime periods were between 20 and 25 dBA, and some higher nighttime periods were between 40 and 45 dBA. The highest nighttime hourly L_{50} at this site was 60 dBA which occurred for several hours during one night (11/13/19) due to sound from nearby agricultural activity. Nighttime hourly L_{50} s were less than 50 dBA at all other times. Over the entire monitoring period, the daytime L_{50} at this site was 36 dBA and the nighttime L_{50} was 32 dBA.

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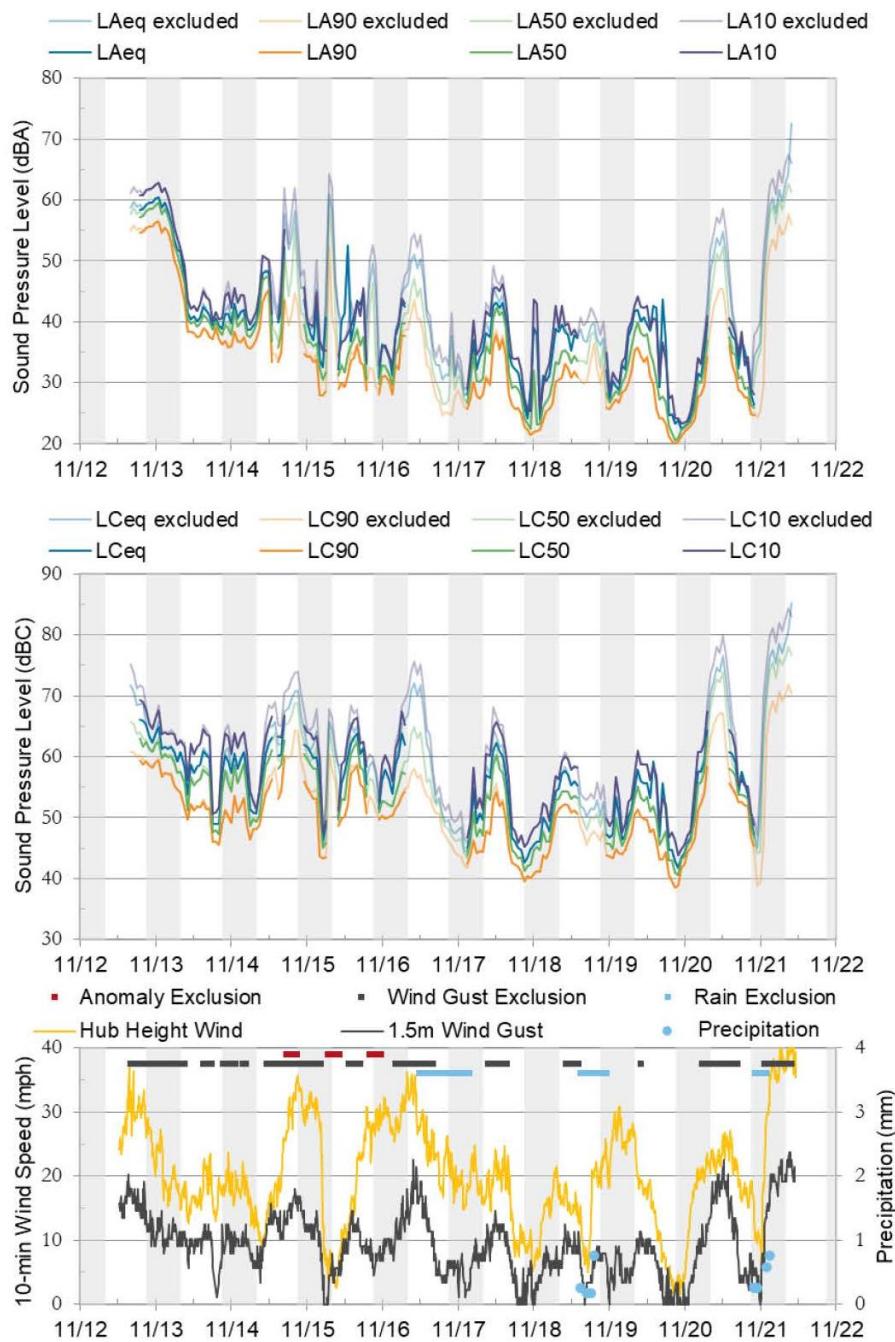


FIGURE 19: PRE-CONSTRUCTION MONITORING RESULTS AT MONITOR 1

Revised Noise Assessment, Big Bend Wind Project**Monitor 2**

Results for Monitor 2 are presented in Figure 20. The primary noise sources at this location were car and truck passbys, biogenic sounds (birds especially), occasional aircraft overflights, distant agricultural equipment, local agricultural operations, and wind rustling through trees. The location generally exhibited a diurnal pattern. The quietest nighttime periods were between 20 and 25 dBA, and some higher nighttime periods were between 40 and 45 dBA. The highest nighttime hourly L_{50} at this site was 58 dBA which occurred for a few hours during one early morning (11/21/19) due to sound from nearby agricultural activity. Nighttime hourly L_{50} s were less than 50 dBA at all other times. Over the entire monitoring period, the daytime L_{50} at this site was 40 dBA and the nighttime L_{50} was 31 dBA.

Monitor 2 represents one of the areas with the highest projected sound levels by the pre-construction sound propagation model, so the statistical spectral levels for a representative wind speed (9 m/s) at a representative hub height (109 meters) are presented in Figure 21.

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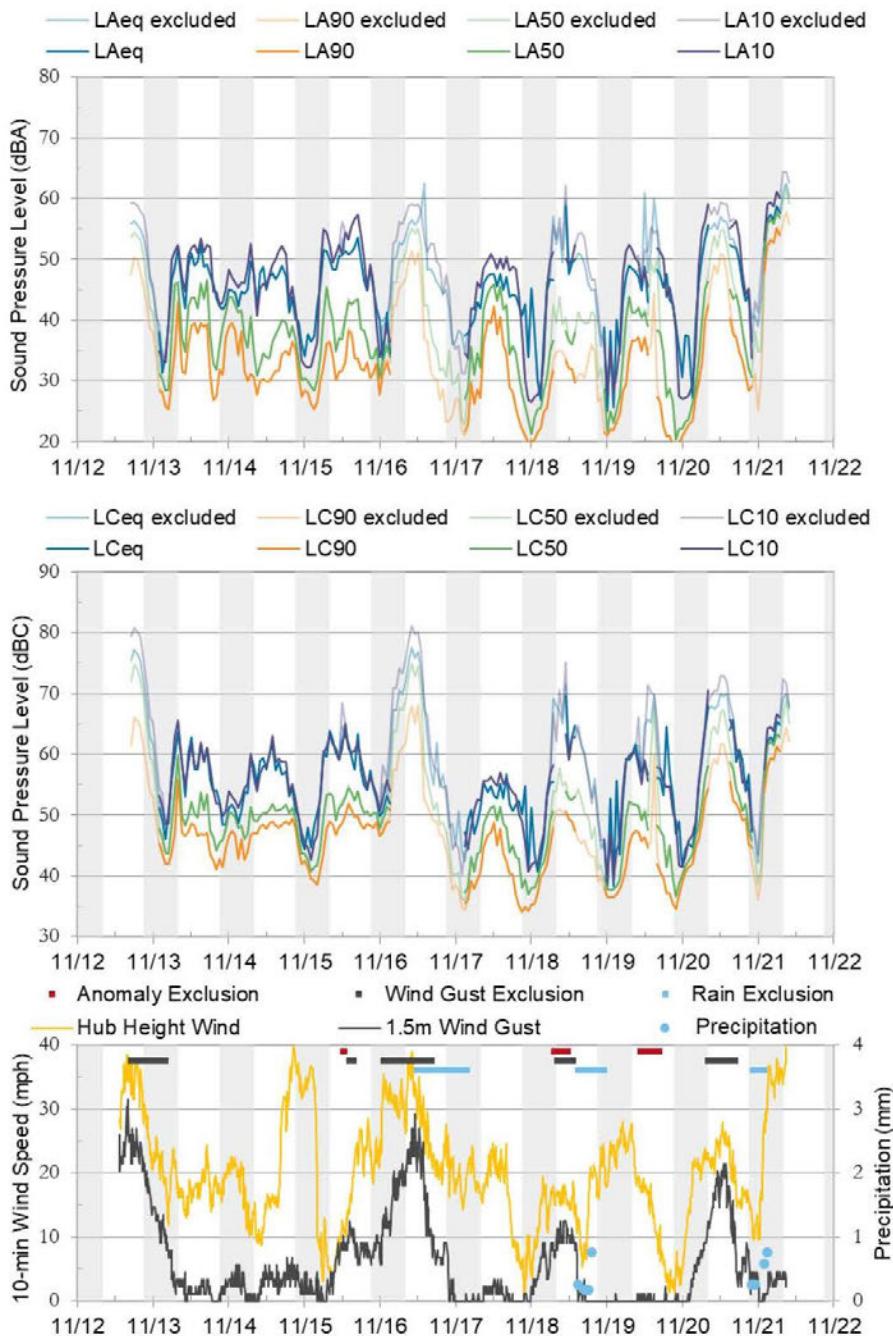


FIGURE 20: PRE-CONSTRUCTION MONITORING RESULTS AT MONITOR 2

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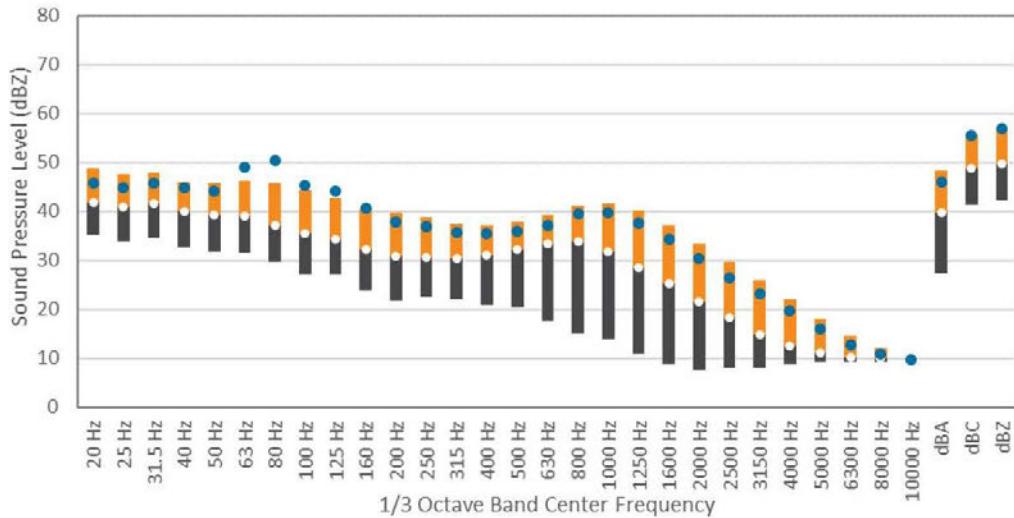


FIGURE 21: 1/3 OCTAVE BAND AND OVERALL STATISTICAL SOUND LEVELS AT MONITOR 2 (FOR PERIODS WITH 9 m/s WIND SPEED AT HUB HEIGHT)

Monitor 3

Results for Monitor 3 are presented in Figure 22. The primary noise sources at this location were occasional vehicle passbys, biogenic sounds (birds especially), occasional aircraft overflights, distant agricultural equipment, distant train horn, and wind rustling through trees. The location generally exhibited a diurnal pattern. The quietest nighttime periods were between 20 and 25 dBA, and some higher nighttime periods were around 40 dBA. The highest nighttime hourly L_{50} at this site was 49 dBA. Over the entire monitoring period, the daytime L_{50} at this site was 36 dBA and the nighttime L_{50} was 31 dBA.

Monitor 3 represents one of the areas with the highest projected sound levels by the pre-construction sound propagation model, so the statistical spectral levels for a representative wind speed (9 m/s) at a representative hub height (109 meters) are presented in Figure 23.

Revised Noise Assessment, Big Bend Wind Project

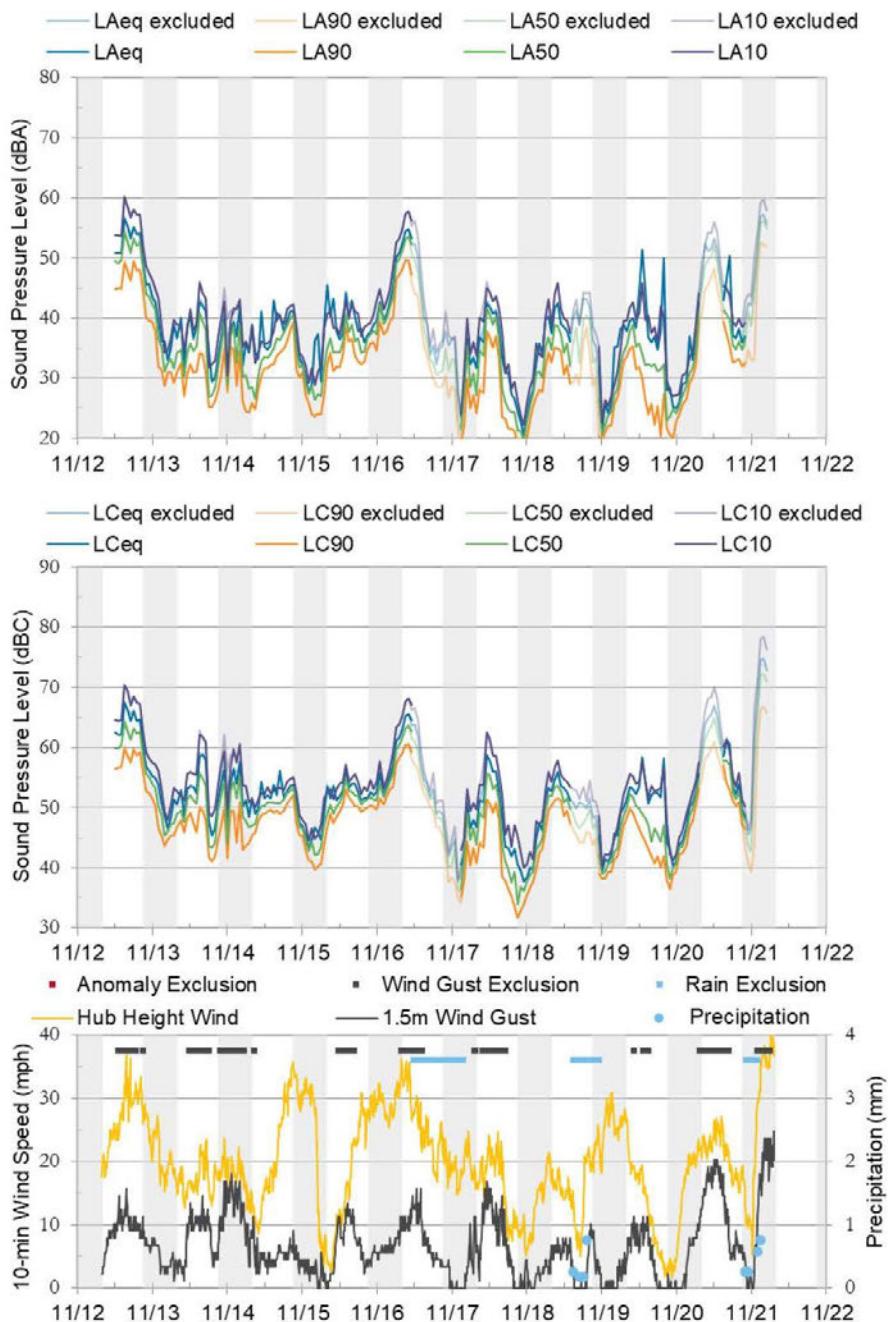


FIGURE 22: PRE-CONSTRUCTION MONITORING RESULTS AT MONITOR 3

Revised Noise Assessment, Big Bend Wind Project

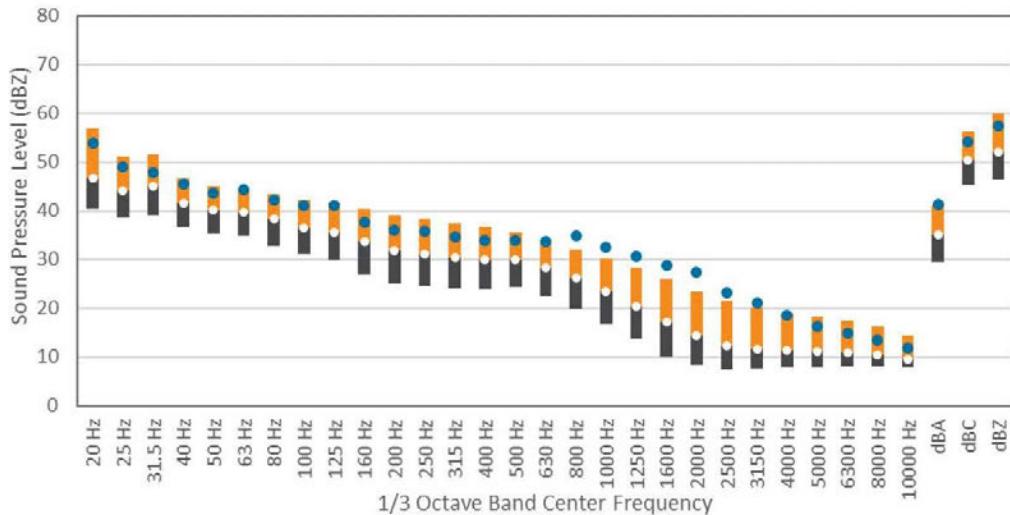


FIGURE 23: 1/3 OCTAVE BAND AND OVERALL STATISTICAL SOUND LEVELS AT MONITOR 3 (FOR PERIODS WITH 9 m/s WIND SPEED AT HUB HEIGHT)

Monitor 4

Results for Monitor 4 are presented in Figure 24. The primary noise sources at this location were occasional vehicle passbys, distant traffic, biogenic sounds, occasional aircraft overflights, local agricultural operations, and distant train passbys. The location generally exhibited a diurnal pattern, and had the highest number of exclusions due to wind speed. The quietest nighttime periods were between 25 and 30 dBA, and some higher nighttime periods were between 40 and 50 dBA. The highest nighttime hourly L_{50} at this site was 47 dBA. Over the entire monitoring period, the daytime L_{50} at this site was 40 dBA and the nighttime L_{50} was 36 dBA.

Revised Noise Assessment, Big Bend Wind Project

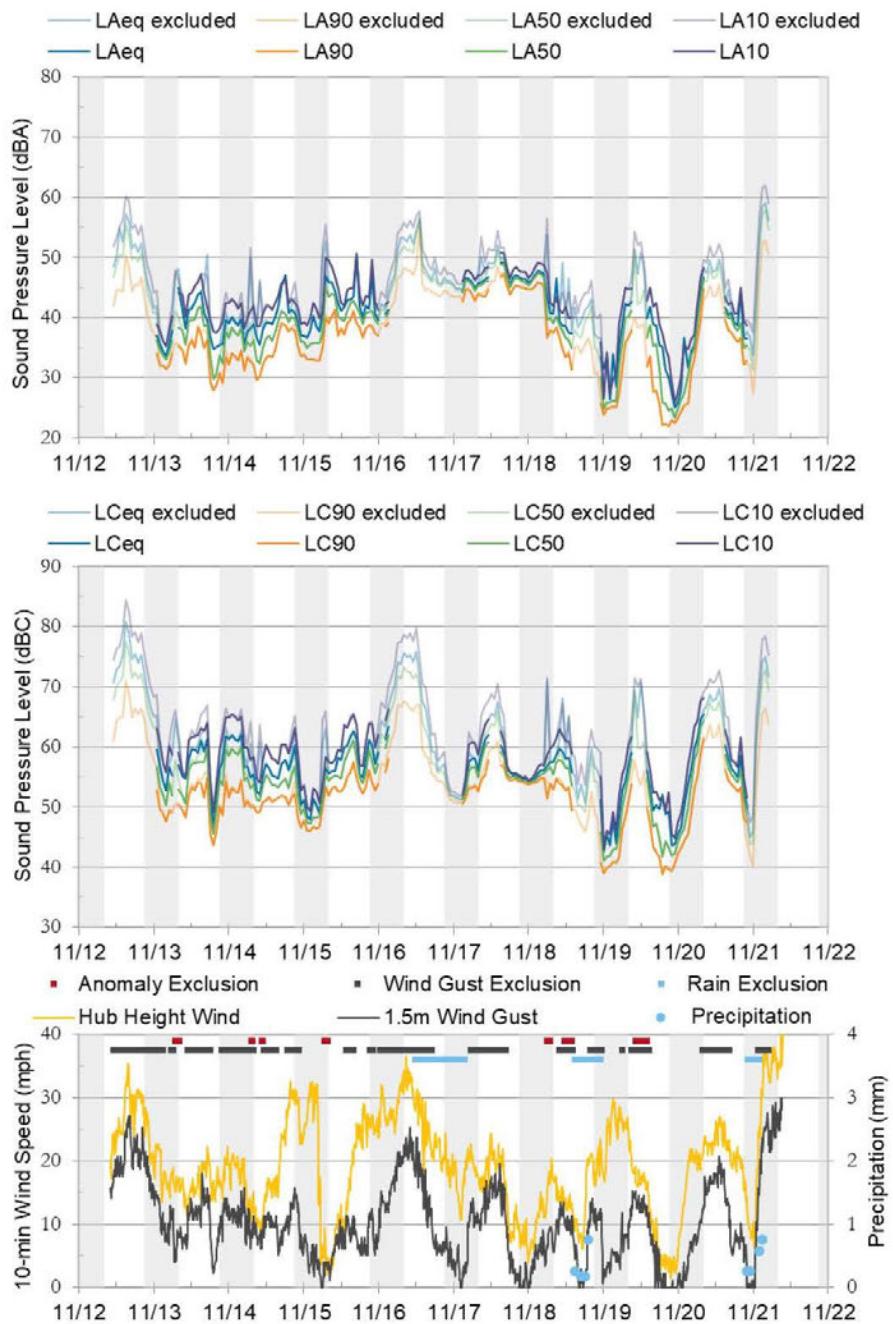


FIGURE 24: PRE-CONSTRUCTION MONITORING RESULTS AT MONITOR 4

Revised Noise Assessment, Big Bend Wind Project

Monitor 5

Results for Monitor 5 are presented in Figure 25. Monitor 5 was similar in soundscape to Monitor 4. The primary noise sources at this location were, distant traffic, biogenic sounds (primarily birds), distant mechanical equipment, occasional aircraft overflights, distant train passbys, and wind rustling through trees. The location generally exhibited a diurnal pattern. The quietest nighttime periods were between 25 and 30 dBA, and some higher nighttime periods were between 40 and 50 dBA. The highest nighttime hourly L_{50} at this site was 44 dBA. Over the entire monitoring period, the daytime L_{50} at this site was 39 dBA and the nighttime L_{50} was 36 dBA.

Revised Noise Assessment, Big Bend Wind Project

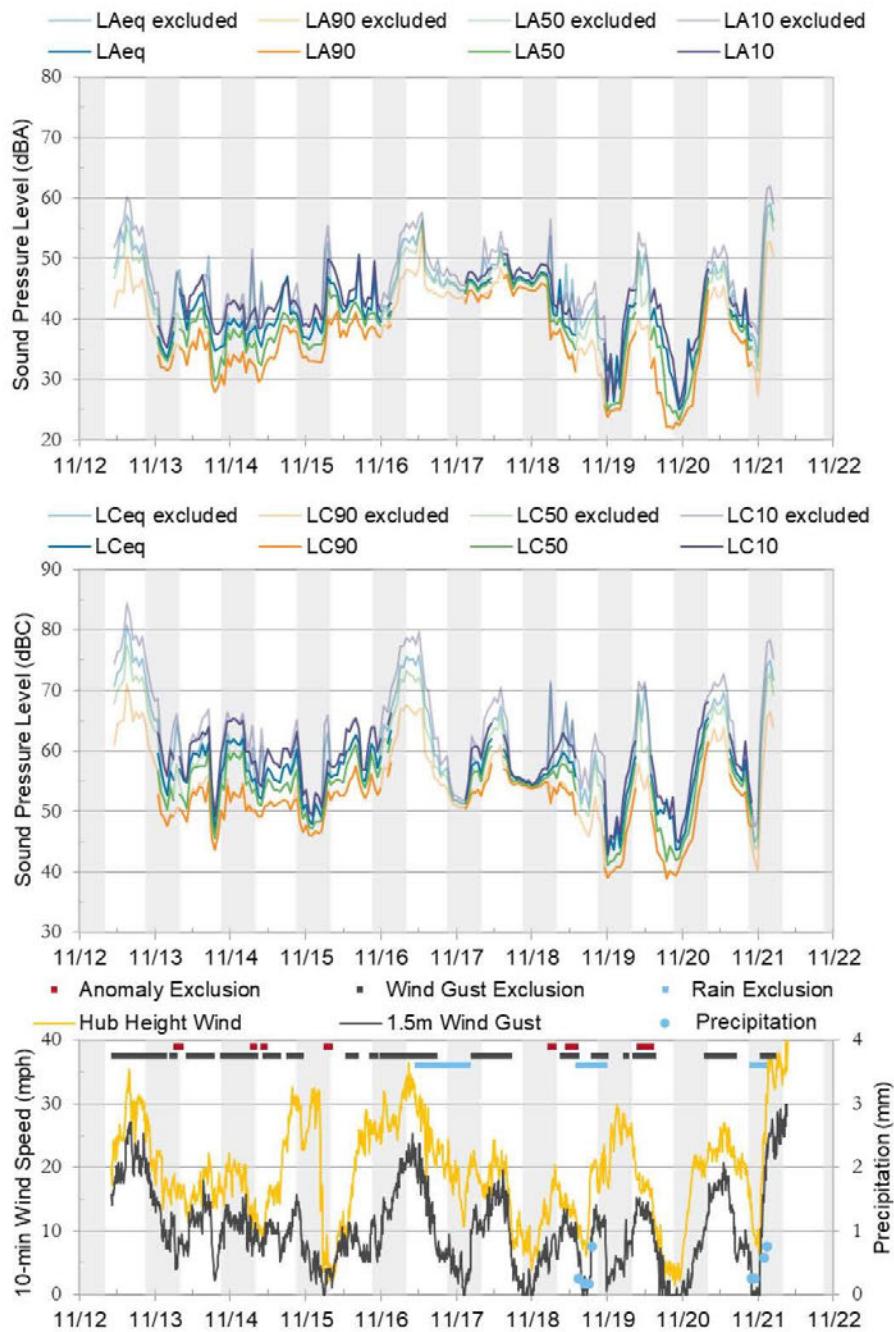


FIGURE 25: PRE-CONSTRUCTION MONITORING RESULTS AT MONITOR 5

Revised Noise Assessment, Big Bend Wind Project**Offsite Monitor**

Results for the offsite monitor are presented in Figure 26. The primary noise sources at this location were distant traffic, biogenic sounds, occasional vehicle passbys, occasional aircraft overflights, local agricultural operations, distant train horn, and wind rustling through trees. The location generally exhibited a diurnal pattern, and sound levels were more similar to Monitors 1 through 3 than Monitors 4 and 5. The quietest nighttime periods were around 25 dBA, and some higher nighttime periods were between 40 and 45 dBA. Over the entire monitoring period, the daytime L_{50} at this site was 36 dBA and the nighttime L_{50} was 33 dBA.

Statistical spectral levels for a representative wind speed (9 m/s) at a representative hub height (109 meters) are presented in Figure 27.

Revised Noise Assessment, Big Bend Wind Project

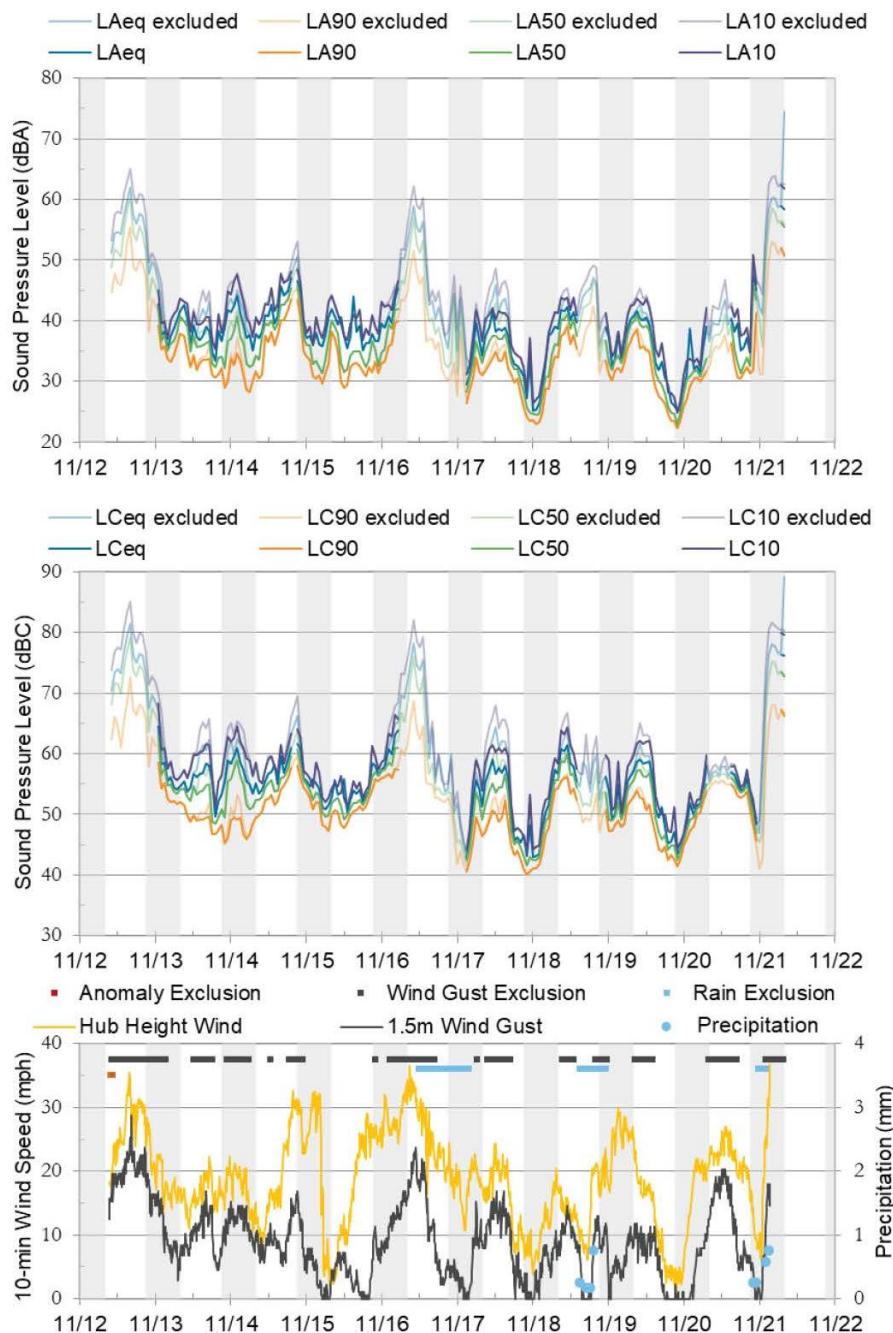


FIGURE 26: PRE-CONSTRUCTION MONITORING RESULTS AT THE OFFSITE MONITOR

Revised Noise Assessment, Big Bend Wind Project

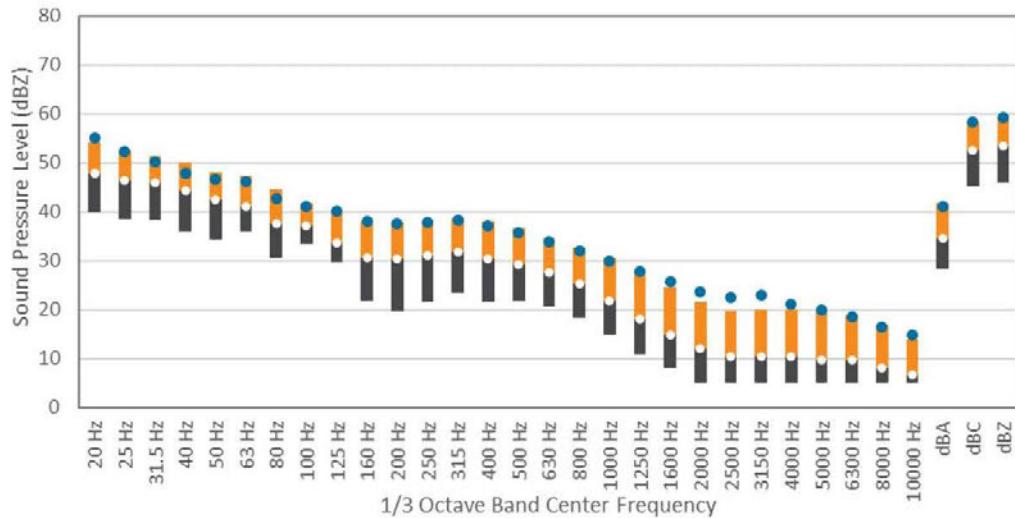


FIGURE 27: 1/3 OCTAVE BAND AND OVERALL STATISTICAL SOUND LEVELS AT THE OFFSITE MONITOR (FOR PERIODS WITH 9 m/s WIND SPEED AT HUB HEIGHT)