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March 10, 2021

New Hampshire Site Evaluation Committee (NHSEC)  
Attention: Interim Administrator  
21 S. Fruit Street, Suite 10  
Concord, NH 03301-2429

By email: [admin@sec.nh.gov](mailto:admin@sec.nh.gov)

Town of Antrim  
Attention: Donna Hanson, Town Administrator  
P.O. Box 517, 66 Main St.  
Antrim, NH 03440

By email: [antrimbiz@tds.net](mailto:antrimbiz@tds.net)

**Re: Antrim Wind Energy – Post-Construction Sound Monitoring Report for Fall 2020**

Dear Interim Administrator and Ms. Donna Hanson,

Following conditions of the Antrim Wind Energy (AWE) NHSEC Certificate<sup>1</sup> and the Town Agreement<sup>2</sup>, please find attached the report for the Post-Construction Sound Monitoring performed during the fall 2020.

Per AWE NHSEC Certificate's condition and the Town Agreement, we respectfully request that the Town of Antrim maintain a copy of this report *available at the Town Hall for all potential owners and/or developers (Potential Owners and/or Developers) applying for either a: (i) building permit to construct a new residential structure or (ii) planning board approval for the subdivision of land for residential use, within one mile of any wind turbine associated with the Project (New Development).*

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<sup>1</sup> NHSEC Order and Certificate of Site and Facility with Conditions, Docket No. 2015-02, March 17, 2017.

<sup>2</sup> Amended Agreement Between the Town of Antrim New Hampshire and Antrim Wind Energy LLC, Developer/Owner of Antrim Wind Power Project Dated as of March 8<sup>th</sup>, 2012, amended on January 16, 2018.

In conclusion, we believe the attached report satisfies the AWE NHSEC Certificate's condition and the Town Agreement as well as NHSEC Rule 301.18 while showing compliance with the applicable sound limits.

We wish to reiterate that TransAlta is committed to the safe operation of all its facilities including AWE.

Regards,

**TRANSALTA CORPORATION**



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Specialist, environment | Wind & Solar Operations

Encl



**Acentech Report #484**

**Antrim Wind Farm – Post Construction Sound Monitoring  
Fall 2020**

March 9, 2021

Prepared for:  
**Antrim Wind Energy LLC / TransAlta Corporation**  
26 Tuttle Hill trail  
Antrim, NH 03440

*Acentech Project No. 633004*

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## EXECUTIVE SUMMARY

The Antrim Wind Project is a wind power generation facility located in Hillsborough County, New Hampshire. The project consists of 9 Siemens SWT 3.2-113 turbines, each with a rotor diameter of 113 meters and rated capacity of 3.2 megawatts (MW), for a total of 28.8 MW. The facility is owned and operated by Antrim Wind Energy LLC (AWE), a subsidiary of TransAlta Corporation. Commercial operation of this project began on December 24, 2019. Acentech has been contracted by AWE to conduct a post construction sound monitoring program for assessment of the facility's sound level compliance.

The Antrim Wind Project is subject to regulations from the New Hampshire Site Evaluation Committee (NHSEC) for facility sound. This includes Rule 301.14(f)(2)a and Rule 301.18 that contain details regarding sound limits and sound study methodology. Rule 301.18 stipulates that post-construction sound monitoring surveys are required to be conducted once within 3 months of commissioning and once during each season thereafter for the first year. This report details the results of the fall 2020 sound level monitoring campaign, which followed the aforementioned NHSEC rules.

One of the landowners whose property hosts site location L4 has refused access to their property. AWE submitted a waiver request to the NHSEC on July 24, 2020 for guidance on this matter<sup>1</sup> and at the time of the mobilization for the fall campaign the NHSEC had not yet made a determination on the waiver<sup>2,3</sup>. The waiver was published on January 5, 2021<sup>4</sup>. Thus, without permission to monitor at this location, AWE has instructed Acentech to continue sound monitoring at the remaining 4 locations for the fall campaign. Therefore, this report includes the sound compliance assessment at locations L1, L2, L3, and L5.

Sound levels were continuously measured at four locations previously defined by the project surrounding the facility from November 9, 2020 to November 30, 2020, a period of 21 days. At the end of this period it was discovered that the ground wind speed at Location 1 had not been saved due to a malfunctioning anemometer. In order to have a complete set of data the equipment at all four locations was deployed again, continuously measuring from December 4, 2020 through December 21, 2020, a period of 17 days. As required by the NHSEC, Acentech also performed a night of attended sound level measurements at each site. This was done on the night/morning of November 16<sup>th</sup> to the 17<sup>th</sup>, 2020 from approximately 8:00 pm to 1:30 am. The data presented in this report for Location 1 contains only the December monitoring period, and the other locations contain both November and December periods.

The facility's turbine operational data, local and regional meteorological data, and sound level measurements were all analyzed to identify periods of time when the maximum level of sound from the turbines could be expected during the monitoring campaign. After identifying the appropriate times for evaluating project compliance, and eliminating transient non-turbine sounds from those periods, and then computing the turbine specific sound levels (total sound – ambient residual sound) it has been found that the project is in compliance with the 1-hour LA<sub>EQ</sub> 40 dBA nighttime project limit. By demonstrating that the identified periods at each location meet the stricter nighttime limit, it follows that the daytime limit of 45 dBA is also met.

The table below provides an overall summary of the sound levels determined for each of the five locations. The highest 1-hour LA<sub>EQ</sub> sound level was identified at Location 3 with a level of 36 dBA. The lowest 1-hour LA<sub>EQ</sub> was identified at Location 5 with a level of 30 dBA. The turbine specific LA<sub>EQ</sub> sound levels are below the nighttime project limit of 40 dBA at all four monitoring locations, thus demonstrating compliance with the wind project's sound limits.

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<sup>1</sup> [https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02\\_2020-07-24\\_req\\_adj\\_sch\\_location\\_postconstruction\\_req\\_waiver.pdf](https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2020-07-24_req_adj_sch_location_postconstruction_req_waiver.pdf)

<sup>2</sup> [https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02\\_2020-10-28\\_ave\\_req\\_adj\\_schedule\\_location\\_post\\_construction\\_sound\\_monitoring.pdf](https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2020-10-28_ave_req_adj_schedule_location_post_construction_sound_monitoring.pdf)

<sup>3</sup> [https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02\\_2020-11-09\\_ave\\_follow\\_up\\_req\\_adj\\_schedule\\_location\\_post\\_construction\\_sound\\_monitoring.pdf](https://www.nhsec.nh.gov/projects/2015-02/post-certificate-filings/2015-02_2020-11-09_ave_follow_up_req_adj_schedule_location_post_construction_sound_monitoring.pdf)

<sup>4</sup> [https://www.nhsec.nh.gov/projects/2015-02/orders-notice/2015-02\\_2021-01-05\\_order\\_pending\\_matters.pdf](https://www.nhsec.nh.gov/projects/2015-02/orders-notice/2015-02_2021-01-05_order_pending_matters.pdf)

The necessary criteria and process for identifying periods of maximum turbine sounds resulted in only one time period for compliance assessment at Locations 1 and 2. Because there was only one suitable data period, the minimum and maximum values are the same for Locations 1 and 2. Two periods were identified at Location 3 for assessment of maximum turbine sound, both of which resulted in the same sound level. A total of 21 suitable measurement periods are presented for Location 5.

Summary of Turbine Specific Sound Levels Evaluated at Each Monitoring Location

Location #	1 hour LA <sub>EQ</sub> (dBA)		Nighttime Sound Limit (dBA)	Daytime Sound Limit (dBA)
	Minimum	Maximum		
1	34	34	40	45
2	33	33	40	45
3	36	36	40	45
5	30	35	40	45

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## 1.0 INTRODUCTION

The Antrim Wind Project is situated on approximately 57 acres of land located in Hillsborough County, New Hampshire. The project employs 9 Siemens SWT 3.2-113 turbines, each with a rotor diameter of 113 meters and rated capacity of 3.2 MW, for a total of 28.8 MW. Turbines 1 through 8 are each on 92.5 meter towers and the tower for turbine 9 is 79.5 meters tall. The turbines are on the Tuttle Hill ridgeline spanning southwestward to the northeast slope of Willard Mountain. Figure 1-1 presents a topographic view of the project site showing the nine wind turbines, the project boundaries, and five sound monitoring locations. Commercial operation of this project began on December 24, 2019.

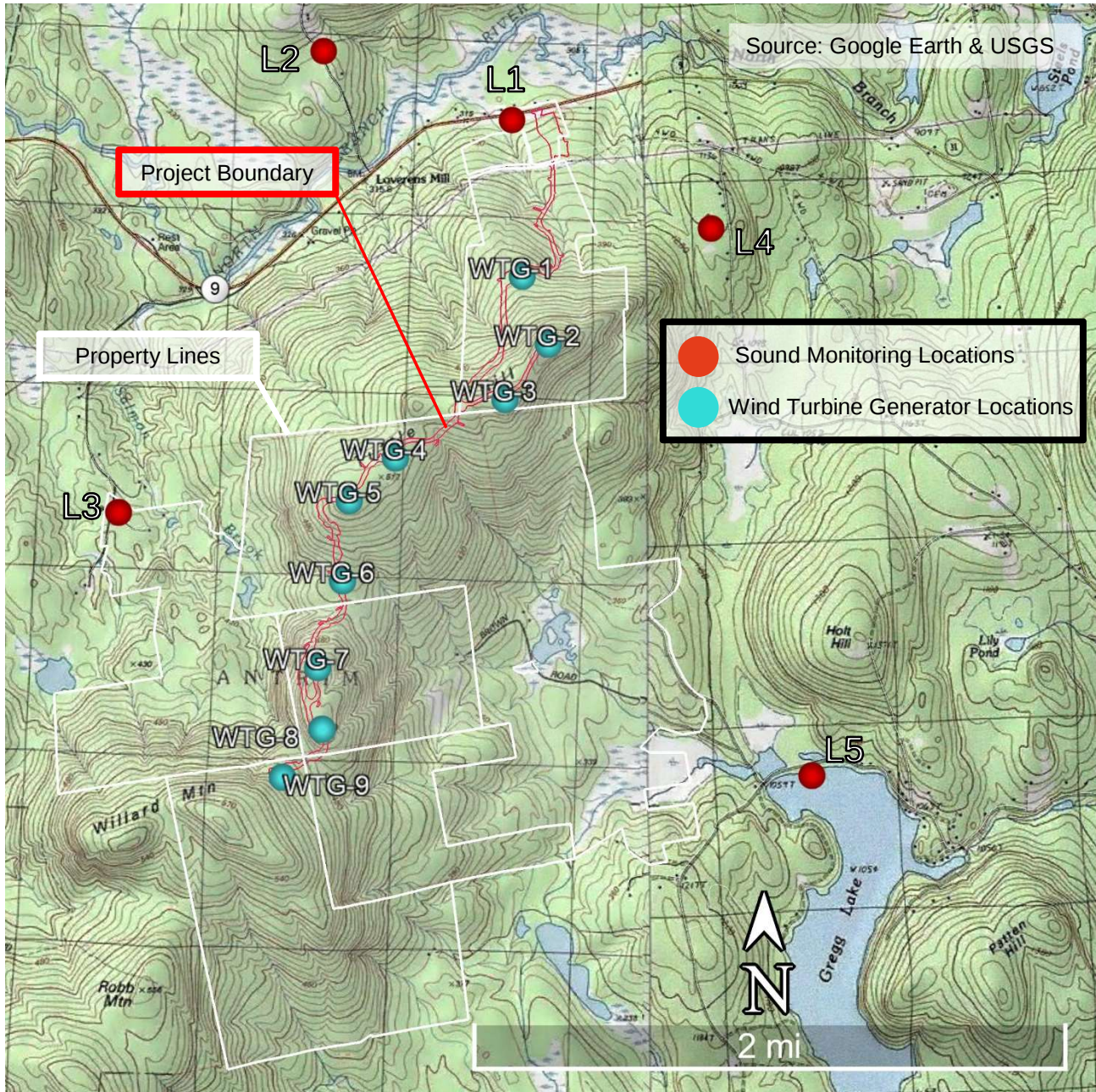


Figure 1-1: Aerial View of the Sound Monitoring Locations Relative to Turbines



### 1.1 PRE-CONSTRUCTION SOUND STUDY

In 2016, prior to construction, a sound level assessment<sup>5</sup> was conducted by another acoustical consulting firm to determine existing sound levels in the vicinity of the project. Computer modeling was also carried out to predict future sound levels from the project when in operation. A comparison of the worst case operational sound levels associated with the wind turbines were calculated to be in compliance with the New Hampshire Site Evaluation Committee (NHSEC) rules, as well as an agreement with the town of Antrim<sup>6</sup>.

### 1.2 CURRENT SOUND STUDY

The NHSEC rules also include post construction sound monitoring requirements in order to verify compliance with the project sound limits in the winter, spring, summer, and fall seasons of the first year of operation. The current report presents the results of the fall 2020 sound monitoring campaign.

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<sup>5</sup> Sound Level Assessment Report – Antrim Wind Project – Antrim, NH, prepared for Antrim Wind Energy LLC, prepared by Epsilon Associates, Inc., February 17, 2016.

<sup>6</sup> Amended Agreement Between the Town of Antrim New Hampshire and Antrim Wind Energy LLC, Developer/Owner of Antrim Wind Power Project Dated as of March 8<sup>th</sup>, 2012, ref.: Section 11.

## 2.0 SOUND BASICS

Sounds we hear come from small pressure oscillations, or sound waves, that travel through the air and actuate our hearing mechanism. These airborne pressure oscillations cause the eardrum and small bones of the middle ear to vibrate. These vibrations are transmitted to the fluid-filled cochlea of the inner ear's sensory organ. Sensory hair cells then translate these vibrations into nerve impulses that are transmitted to the brain where they are perceived and interpreted.

Figure 2-1 describes common sound pressure levels in A-weighted decibel levels as they relate to the range of sound humans encounter in the environment. Typical sound sources in our environment can range between 0 dBA (threshold of hearing) and 110 dBA (loud rock band). The threshold of pain is about 140 dBA.

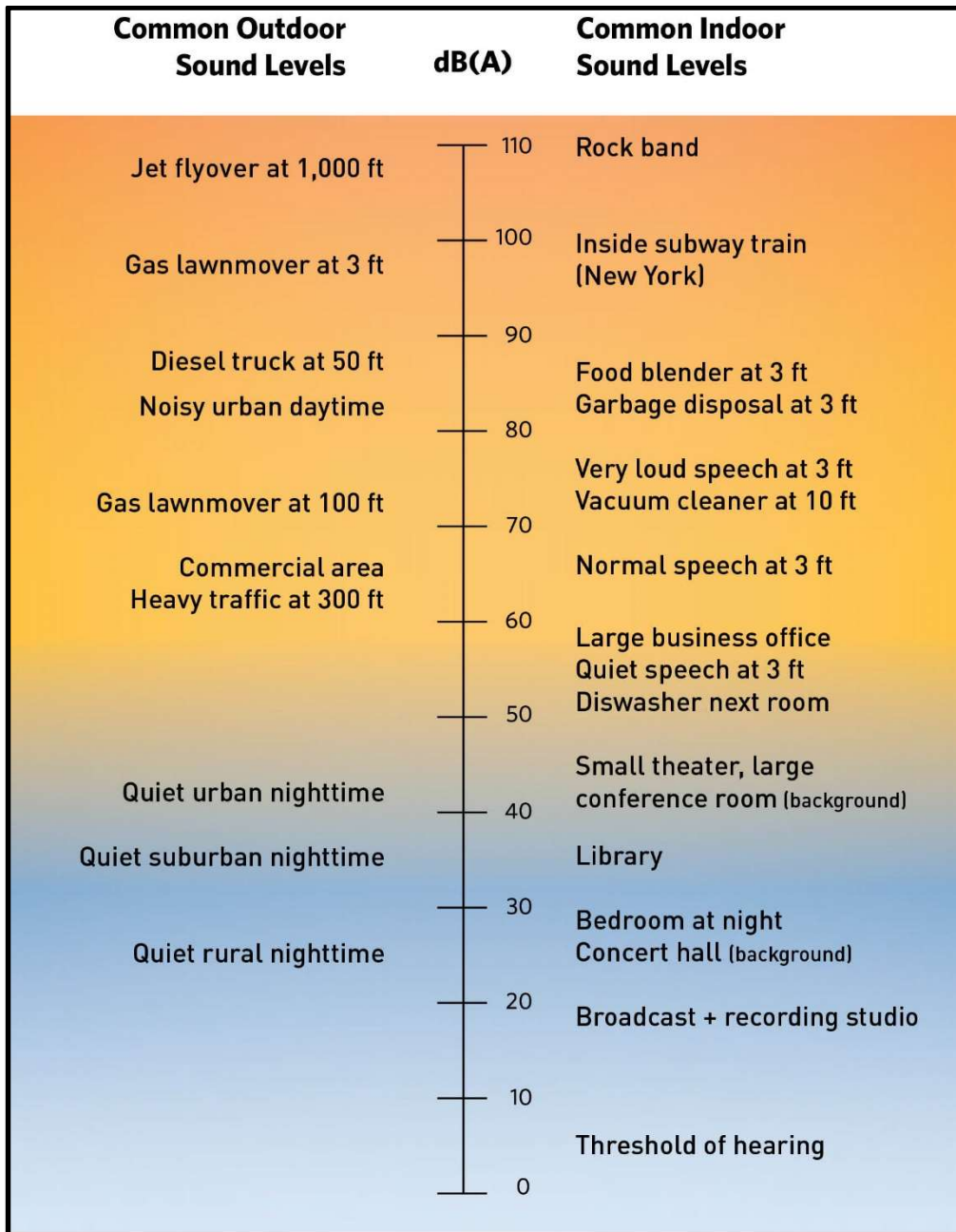


Figure 2-1: Sound Pressure Levels for Various Sound Sources (dBA)

The magnitude of sound waves (pressure oscillations) is described quantitatively by the terms sound pressure level or sound level. The magnitude of a sound is reported in decibels, abbreviated dB. The decibel (dB) is a logarithmic value that is the accepted standard method for reporting the amplitude of sound because it accounts for these large variations in amplitude and reflects the way people perceive changes in sound amplitude. The faintest sound level that can be heard by a young healthy ear is about 0 dB, a moderate sound level is about 50 dB, and a loud sound level is about 100 dB.

Different sounds may have different frequency content. Frequency content of a sound refers to its tonal quality or pitch. When describing sound and its effect on a human population, A-weighted (denoted “dBA”) sound levels are typically used to account for the response of the human ear. The term “A-weighted” refers to a filtering of the sound signal to emphasize frequencies in the middle of the audible spectrum and to de-emphasize low and high frequencies in a manner corresponding to the way the human ear perceives sound.

This filtering network has been established by the American National Standards Institute (ANSI)<sup>7</sup>, and can be seen in Figure 2-2. The A-weighted sound level has been found to correlate well with peoples' judgments of the noisiness of different sounds and has been used for many years in the field of environmental acoustics. Another metric used to describe sound is C-weighted (denoted “dBC”) sound levels. C-weighted filtering of the sound signal allows more low-frequency content than A-weighting, better representing the human ear’s “flatter” response at high sound levels. Both A and C-weighted filters can be seen in Figure 2-2.

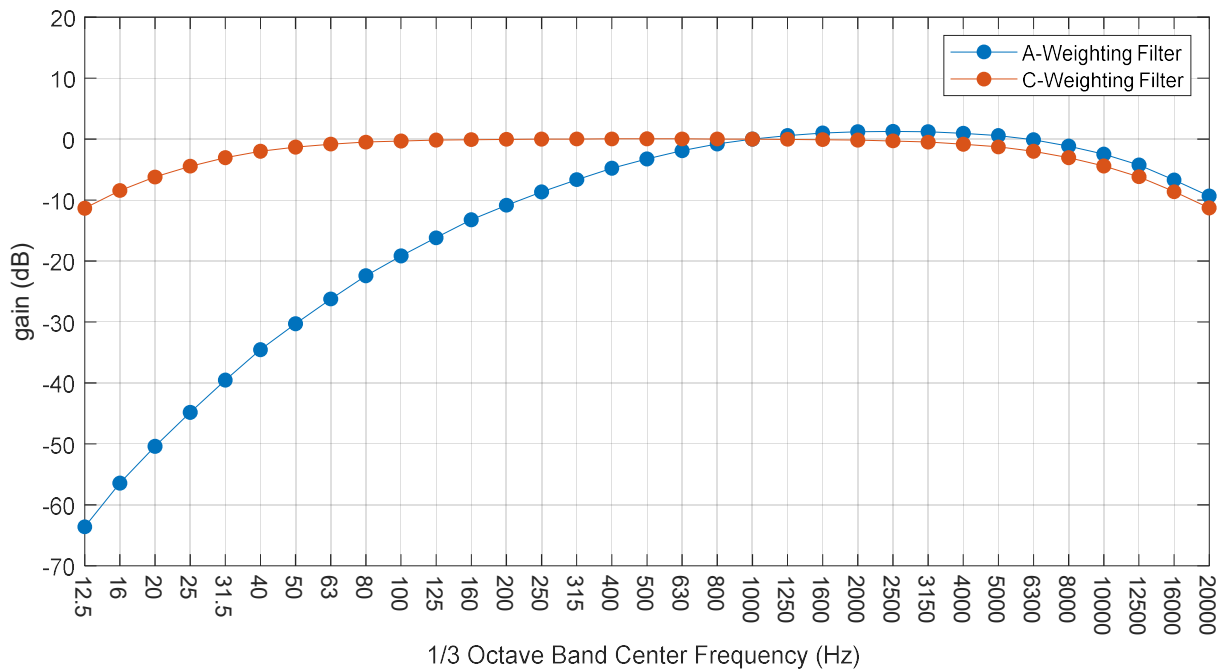


Figure 2-2: A- and C-Weighting Filters

Since sound fluctuates from moment to moment, it is common practice to condense the sound level over a specified period of time into a single value. This study uses two methods for describing variable sounds.

- 1)  $L_{EQ}$  is a number called the Equivalent Continuous Sound Level ( $L_{EQ}$ ). The Equivalent Continuous sound level is the level of a steady-state (continuous) sound that has the same total (equivalent) energy as the time-varying sound of interest, taken over a specified time period. Thus, the Equivalent Continuous sound level is a single-valued level that expresses the time-averaged total energy of an entire period. It includes both the high sound level single-event ambient sounds and the relatively steady background sounds. Many surveys have shown that the  $L_{EQ}$  properly predicts annoyance, and thus this metric is commonly

<sup>7</sup> ANSI S1.42, “Designer Response of Weighting Networks for Acoustical Measurements”, reaffirmed March 2006.

used for community sound measurements, prediction, and impact assessment.

- 2) Percentile sound ( $L_n$ ) levels represent statistical values of the measured sound observed during a specified period of time. The “n” designation indicates the percentage of time that the sound level was exceeded in the measurement interval, where n can have a value of 0 to 100 percent. For example, the  $L_{33}$  is the sound level which is exceeded 33% of the measurement period. Two percentile sound level metrics presented in this report are described below.
  - a)  $L_{90}$  is the sound level in decibels exceeded 90 percent of the time during the measurement period. The  $L_{90}$  is close to the lowest sound level observed, and is often used to represent the ambient sound environment when there are no intermittent sound sources present. The  $L_{90}$  in a 1 hour measurement represents the quietest 6 minutes. In other words, to affect the 1 hour  $L_{90}$  the sound source must be present for more than 54 minutes. This metric represents the steady or quasi-steady sounds issued from the turbine operation as well as other sources in the environment such as streams, continuous wind in vegetation, etc. The  $L_{90}$  is preferred over the minimum sound pressure level  $L_{MIN}$  because the latter is dependent on one data point and the  $L_{90}$  is based on all the data measured during the noted period.
  - b)  $L_{10}$  is the sound level in decibels exceeded 10 percent of the time during the measurement period. It is close to the maximum level observed during the measurement period. The  $L_{10}$  is often used to quantify the louder sounds that occur more frequently than the maximum sound level. The  $L_{10}$  in a 1 hour measurement represents the loudest 6 minutes. This metric represents the level of transient sounds, often caused by automobile traffic, wildlife, etc. In most situations, the  $L_{10}$  is not influenced by the turbine operation.

When weighted, the A-weighting or C-weighting is added to the metric, respectively denoted as  $LA_{EQ}$ ,  $LA_{10}$ ,  $LA_{90}$  and  $LC_{EQ}$ ,  $LC_{10}$ ,  $LC_{90}$ .

Sound pressure levels can also be quantified on a frequency basis. This is sometimes referred by the layperson as “pitch”. The average person has the ability to hear sounds in the range of 20 to 20,000 hertz (Hz); which is the unit for cycles/second. The range of frequencies have been organized into standardized “bins” referred to as octave bands and one-third octave bands. The frequencies for each band are defined by ANSI S1.6-1984 (reaffirmed most recently in April 2011). One-third octave bands have three times as many bins as octave bands as given in Table 2-1. The measurements herein were taken using one-third octave band processing from the frequencies of 12.5 to 20,000 Hz.

Table 2-1: Standard Octave and One-Third Octave Center Frequency Bands

Octave Band Center Frequency (Hz)	1/3 Octave Band Center Frequency (Hz)
	12.5
16	16
	20
	25
31.5	31.5
	40
	50
63	63
	80
	100
125	125
	160
	200
250	250
	315
	400
500	500
	630
	800
1000	1000
	1250
	1600
2000	2000
	2500
	3150
4000	4000
	5000
	6300
8000	8000
	10000
	12500
16000	16000
	20000

### 3.0 PROJECT SOUND CRITERIA

The Antrim Wind Project is subject to the NHSEC rules including Rule 301.14(f)(2)a. and Rule 301.18 that contain details regarding sound limits and sound study methodology.

#### 3.1 NHSEC SITE RULE 301.18 – SOUND STUDY METHODOLOGY

The NHSEC Rule 301.18 specifies the methodologies for conducting sound studies for wind energy facilities. Sections 301.18(e) through (h) pertain to this post-construction noise compliance monitoring, which includes the following specifications that relate to the present study.

- (e) *Post-construction noise compliance monitoring shall include:*
- (1) *Adherence to the standard of ANSI/ASA S12.9-2013 Part 3, that requires short-term attended measurements to ensure transient noises are removed from the data, and measurements shall include at least one nighttime hour where turbines are operating at full sound power with winds less than 3 meters per second at the microphone;*
  - (2) *Unattended long-term monitoring shall also be conducted;*
  - (3) *Sound measurements shall be omitted when there is rain, or when temperatures are below instrumentation minima, and shall comply with the following additional specifications:*
    - a. *Microphones shall be placed 1 to 2 meters above ground level and at least 7.5 meters from any reflective surface, following the protocols of ANSI/ASA S12.9-2013 Part 3*
    - b. *Proper microphone screens shall be required;*
    - c. *Microphones shall be field-calibrated before and after measurements; and*
    - d. *An anemometer shall be located within close proximity to each microphone;*
  - (4) *Monitoring shall involve measurements being made with the turbines in both operating and non-operating modes, and supervisory control and data acquisition system data shall be used to record hub height wind speed and turbine power output;*
  - (5) *Locations shall be pre-selected where noise measurements will be taken that shall be the same locations at which predictive sound modeling study measurements were taken pursuant to subsection (c) of Rule 301.18, and the measurements shall be performed at night with winds above 4.5 meters per second at hub height and less than 3 meters per second at ground level;*
  - (6) *All sound measurements during post-construction monitoring shall be taken at 0.125-second intervals measuring both fast response and Leq metrics; and*
  - (7) *Post-construction monitoring surveys shall be conducted once within 3 months of commissioning and once during each season thereafter for the first year, provided that:*
    - a. *Additional surveys shall be conducted at the request of the committee or the administrator.*
    - b. *Adjustments to this schedule shall be permitted, subject to review by the committee or the administrator.*
- (f) *Post-construction sound monitoring reports shall include a map or diagram clearly showing the following:*
- (1) *Layout of the project area, including topography, project boundary lines, and property lines;*
  - (2) *Locations of the sound measurement points; and*
  - (3) *Distance between any sound measurement point and the nearest wind turbine.*
- (g) *For each sound measurement period during post-construction monitoring, reports shall include each of the following measurements:*
- (1) *LA<sub>EQ</sub>, LA<sub>10</sub>, and LA<sub>90</sub>*
  - (2) *LC<sub>EQ</sub>, LC<sub>10</sub>, and LC<sub>90</sub>*
- (h) *Noise emissions shall be free of audible tones, and if the presence of a pure tone frequency is detected, a 5 dB penalty shall be added to the measured dBA sound level.*

### 3.2 PROJECT SOUND LIMITS

The NHSEC Site Rule 301.14(f)(2)a provides the following sound limits for the Antrim Wind Project.

*“With respect to sound standards, the A-weighted equivalent sound levels produced by the applicant’s energy facility during operations shall not exceed the greater of 45 dBA or 5 dBA above background levels, measured at the  $L_{90}$  sound level, between the hours of 8:00 a.m. and 8:00 p.m. each day, and the greater of 40 dBA or 5 dBA above background levels, measured at the  $L_{90}$  sound level, at all other times during each day, as measured using microphone placement at least 7.5 meters from any surface where reflections may influence measured sound pressure levels, on property that is used in whole or in part for permanent or temporary residential purposes, at a location between the nearest building on the property used for such purposes and the closest wind turbine”*

The facility’s Certificate is also conditioned upon Antrim Wind Energy’s compliance with the terms and conditions contained in the Agreement entitled: “Agreement Between Town of Antrim New Hampshire and Antrim Wind Energy LLC, Developer/Owner of the Antrim Wind Power Project” dated March 8, 2012 (“the Agreement”). The Agreement was amended, effective January 16, 2018, and is incorporated by reference to the Certificate at Appendix V. Paragraph 11 of the Agreement, contains provisions regarding “Noise Restrictions.” Nevertheless, both the agreement and NHSEC Site Rule 301.14(f)(2)a have the same sound limits.

### 3.3 COMPLIANCE ASSESSMENT WITH THE SOUND LIMITS

To assess compliance in this study the 1 hour  $L_{EQ}$  metric is compared to the appropriate daytime and nighttime limits. Times have been identified during the monitoring period that are expected to result in the greatest turbine-related sounds at each location. The limit applies to the turbine specific sound, which can be arrived at by subtracting the ambient residual environment with no turbine sound from the total sound (total sound minus the ambient residual equals the turbine-only sound levels), as instructed by ANSI/ASA S12.9-2013 Part 3. This process involves subtraction of the ambient sound levels from the total sound levels in each 1/3 octave band and recalculating the turbine only overall A and C weighted sound levels. Per the standard, if the ambient residual level in a 1/3 octave band is within 3 dB below the total sound, or is higher than the total sound in the same band, then the resultant level should be set equal to -99 dB. This essentially excludes those frequency bands from the calculation of the overall sound level. However, when the ambient residual background is very close to the total sound environment this process can exclude many frequency bands, thereby significantly lowering the final overall level. A more conservative approach has been used in this study to avoid extra exclusion of data. In this study, when the ambient residual level in a 1/3 octave band is within 3 dB below the total sound, or is higher than the total sound in the same band, then the resultant level is set equal to the total sound.

The ambient environment used in this study was acquired during periods of time when all nine of the project turbines were off. On the night of November 16, 2020 all 9 turbines were shut down for a period of 1 hour when the average turbine hub height wind speeds were greater than 9 m/s, a speed at which the turbines would be operating at maximum sound power conditions. Choosing this time to establish the site ambient levels is appropriate because under calm wind conditions the turbines will not operate.

#### 4.0 WIND TURBINE SOUND POWER INFORMATION

The Antrim Wind Project employs 9 Siemens SWT 3.2-113 turbines, each with a rated capacity of 3.2 MW. Table 4-1 presents the published sound power levels for this turbine model at various wind speeds referenced to a height of 10.0 meters above ground level. These values were obtained following standard IEC 61400-11 for sound power measurements. The second row of the table also presents the rated electrical power generation at each wind speed threshold.

Table 4-1: Turbine Sound Power Levels versus Wind Speed [dB(A) re: 1 pW]

Wind Speed (m/s)	3	4	5	6	7	8	9	10	11	12	Up to cut out
Sound Power Level (dBA)	90.7	95.3	99.9	104.7	106.0	106.0	106.0	106.0	106.0	106.0	106.0
Electrical power generation (kW)	60	161	334	594	958	1438	2020	2620	3054	3183	3200

This table is important as it allows one to understand when the highest sound levels from the turbines has occurred based on measured site wind conditions and electrical power production. This table shows that the turbines reach their maximum sound levels when generating at least 958 kW.



## 5.0 POST CONSTRUCTION SOUND MEASUREMENT PROGRAM

### 5.1 MONITORING LOCATIONS

Sound monitoring instrumentation was deployed at 4 locations surrounding the wind farm. Table 5-1 presents the global positioning system (GPS) coordinates of each site, along with their orientation to the closest turbines. Locations 3, 4, and 5 each have multiple turbines within the same approximate distance, within 100 meters. When assessing project compliance, the operational data from the closest turbine (or turbines) is considered. Location 1 is due north of the turbines, whereas Locations 2 and 3 are on the west side of the ridgetop. Locations 4 and 5 are east of the project site. Per the NHSEC Rule 301.18, the monitoring locations were the same as the ones chosen for the pre-construction sound study.

Table 5-1: Sound Monitoring Locations

Location	Latitude	Longitude	Closest Turbine(s)	Approximate Distance (m)	Approximate Direction	Wind Direction for Downwind Conditions (deg)
Location L1: Keene Road	43.07559°	-72.00840°	WTG-1	900	North	177
Location L2: Loveren Mill Road	43.07900°	-72.02130°	WTG-1	1,700	Northwest	139
Location L3: Salmon Brook Road	43.05607°	-72.03515°	WTG-5 WTG-6 WTG-7	1,300 1,300 1,400	West West Northwest	87 107 127
Location L4: Reed Carr Road*	43.07008°	-71.99502°	WTG-1 WTG-2	1,100 1,100	East Northeast	255 234
Location L5: Gregg Lake Road	43.04301°	-71.98839°	WTG-2 WTG-3 WTG-6 WTG-7 WTG-8	2,800 2,700 2,800 2,800 2,700	Southeast Southeast East East East	327 321 293 283 276

\*The landowner at this location has not allowed access to their property during the fall monitoring campaign, thus this report does not include L4<sup>8</sup>.

<sup>8</sup> AWE has submitted a waiver request to the NHSEC on July 24, 2020 for guidance on this matter and at the time of the fall campaign the NHSEC had not yet made a determination on the waiver. Thus, without permission to monitor at this location, AWE has instructed Acentech to continue sound monitoring at the remaining 4 locations for the fall campaign. Therefore, this report includes the sound compliance assessment at locations L1, L2, L3, and L5. Additionally, between when the measurement campaign was performed and the preparation of the current report, on January 5, 2021 the NHSEC ruled that if permission on the property is not granted the study shall be conducted without measurements from Location 4.

Figure 5-1 presents photographs of the 4 sound monitoring locations during the fall 2020 campaign.

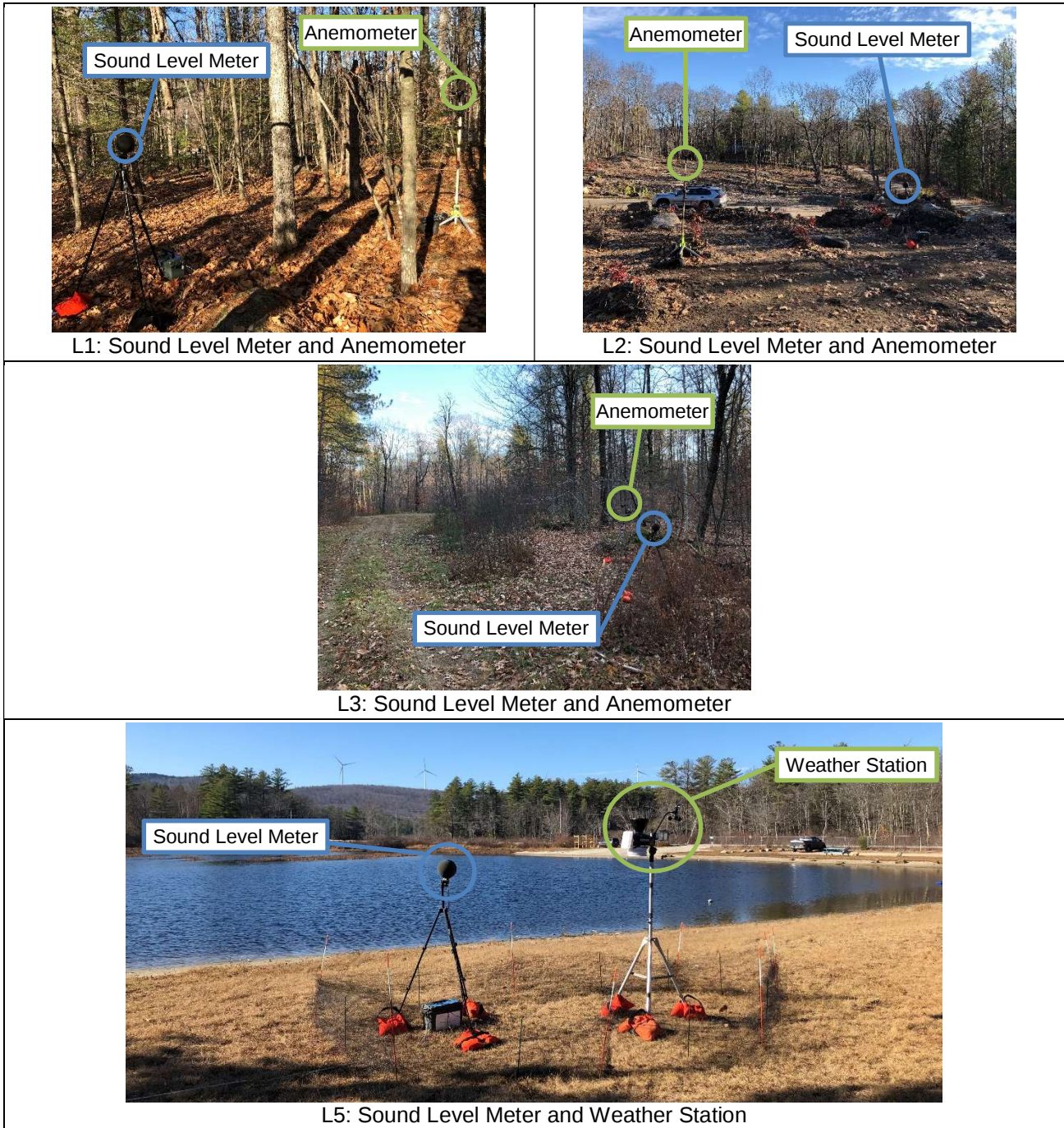


Figure 5-1: Sound Monitoring Installation Photos

## 5.2 MEASUREMENT EQUIPMENT AND METRICS

In accordance with the NHSEC Site Rule 301.18, Acentech measured the following quantities at each monitoring location.

### Sound Measurements

- 1/3 octave band sound pressure levels (SPL) from 12.5 Hz to 20,000 Hz
  - Sound metrics saved every 10 minutes ( $L_{10}$ ,  $L_{90}$ ,  $L_{EQ}$ ) using the meter's fast time response, which analyzes the data with a 0.125 second time constant

- SPL and 1/3 octave amplitudes saved every 0.100 seconds, subject to the meter’s fast time constant of 0.125 seconds (i.e. the meter’s fast response interrogated every 0.100 seconds)
  - After eliminating transient sounds this data was used to recompile the sound metrics
- The prescribed  $L_{EQ}$  and statistical metrics for the sound study were analyzed with the following conditions eliminated from the measurement data:
  - Ground wind speeds above 3 meters/second near the microphones
  - Temperatures below the instrumentation minimum specifications (14° F for the sound level meter)
  - Periods with rain, sleet, hail or snow
- A Zoom H1n audio recording device was deployed with each sound level meter to record the output from the device for listening purposes.

After the prescribed conditions were eliminated from the analysis, the valid data were used to compute values of  $L_{A_{EQ}}$ ,  $L_{A_{10}}$ ,  $L_{A_{90}}$ ,  $L_{C_{EQ}}$ ,  $L_{C_{10}}$ , and  $L_{C_{90}}$ . The  $L_{A_{EQ}}$  data were then compared to each site’s ambient residual sound levels when the turbines were off to establish the facility only sound levels. These turbine specific sound levels are compared to the sound limits for the project. Acentech also evaluated the data for the existence of pure tones using methods from ANSI S12.9 Part 4, Annex C (using 1/3 octave band data), and adding the corresponding 5 dB penalty to the final result of any periods with pure tones present. It is noted that no pure tones from the Antrim Wind Project were observed during this fall sound study.

A total of 4 ANSI/IEC Type 1 sound level meters were deployed in the field for sound monitoring. All microphones were outfitted with 7 inch diameter hydrophobic-foam windscreens, ACO Pacific model WS7-80T or RION brand equivalent. Each microphone was mounted to a tripod at approximately 1.5 meters from the ground and connected to an extension cable that lead to the sound level meter inside of a weather resistant case. The sound instrumentation was calibrated in the field using an acoustical calibrator at the beginning and end of the monitoring period. Each piece of equipment was calibrated and certified as accurate by a third party laboratory to NIST traceable standards within the prior 12 months. Table 5-2 lists the sound level measurement instrumentation information used for this study.

Table 5-2: Sound Level Measurement Instrumentation

	Sound Level Meter Equipment	Model	Serial Number
Location 1	Meter	Rion NL-52	186614
	Pre-Amplifier	Rion NH-25	76664
	Microphone	Rion UC-59	12773
Location 2	Meter	Rion NL-52	1198632
	Pre-Amplifier	Rion NH-25	98846
	Microphone	Rion UC-59	16416
Location 3	Meter	Rion NL-52	998429
	Pre-Amplifier	Rion NH-25	98643
	Microphone	Rion UC-59	15938
Location 5	Meter	Rion NL-52	1198631
	Pre-Amplifier	Rion NH-25	98845
	Microphone	Rion UC-59	16418
ALL	Calibrator	Rion NC-74 acoustic calibrator	34336047

Meteorological Measurements

Continuous ground wind speed at all 4 monitoring locations was measured at approximately 2 meters from the ground. MadgeTech Wind101A anemometers were deployed at locations 1 through 3. A Davis Instruments Vantage Pro 2 weather station was deployed to log wind speed, wind direction, temperature, and

precipitation at location 5. The data at all locations were saved in 10-minute intervals, which were used to compute hourly averages.

#### Turbine Operation Data

AWE supplied Acentech with turbine operational data consisting of individual turbine hub height wind speeds, wind directions, and power outputs in ten minute increments. These data were also compiled into hourly averages for comparison to the hourly sound metrics.

### **5.3 LONG-TERM UNATTENDED MEASUREMENTS**

The fall sound monitoring period was conducted over two periods, the first lasting a period of three weeks from November 9<sup>th</sup> to November 30<sup>th</sup>, 2020. A second period of monitoring was conducted with the same equipment for a period of 17 days from December 4<sup>th</sup> through December 21<sup>st</sup>, 2020. The unattended measurements were carried out in accordance with ANSI S12.9-1992 2013 Part 2 and the NHSEC Rules.

### **5.4 SHORT-TERM ATTENDED MEASUREMENTS**

Acentech performed attended sound monitoring in accordance with the NHSEC Site Rule 301.18. The rule states a post-construction sound study must include attended measurements at each monitoring location for at least one nighttime hour (8:00 pm to 8:00 am) where turbines are operating at full sound power with winds less than 3 meters per second at the microphone and greater than 4.5 meters per second at turbine hub heights.

On the night of November 16, 2020 Acentech personnel were on site to carry out the attended measurements at the four monitoring locations. During these attended measurements, field personnel identified and recorded by notation all audible sound sources other than turbines (local traffic, resident generated sounds, wildlife, etc.) from approximately 8:00 pm until 1:30 am. Ground wind speeds measured at 2 meters were less than 3 m/s for at least an hour at all locations. Turbine operational data showed that all 9 turbines operated at full sound power conditions for an accumulated time of at least one hour during this period. Therefore, all of the conditions were met for attended measurements.

### **5.5 MEASUREMENTS DURING TURBINE SHUTDOWN**

The NHSEC Site Rule 301.18 also states that monitoring shall include measurements with the turbines in both operating and non-operating modes. On the night of attended measurements on November 16, 2020 all nine turbines were shut down for a period of 1 hour from 10:10 pm to 11:10 pm. This period was chosen to represent the site ambient residual sound environment when the hub-height wind speeds were relatively high and therefore under the same conditions required to get turbines at full sound power (conditions at which the compliance assessment is performed). Any transient sound sources such as traffic were eliminated from the ambient measurements in order to quantify the true residual sound levels. These data were used to subtract from the total hourly sound levels (ambient + turbine) to arrive at the turbine specific sound levels.

## **6.0 WEATHER, TURBINE OPERATION AND SOUND MONITORING DATA**

The fall sound monitoring program was conducted over two periods, the first from November 9, 2020 to November 30, 2020 and the second from December 4, 2020 through December 21, 2020. Despite some snow events and a few cold nights, the weather conditions during these five and a half weeks had suitable periods for conducting the wind turbine sound monitoring. Section 6.1 provides a complete discussion of the weather and turbine operating conditions encountered during the monitoring campaign.

Acentech analyzed all of the turbine, meteorological, and sound level meter data to identify periods appropriate for comparing the facility sound to the limits. This process is detailed in Section 6.2.

Sections 6.3 through 6.6 summarize both the attended and unattended data by location. After identifying the appropriate times for evaluating project compliance, and eliminating transient non-turbine sounds from those periods, and then computing the turbine specific sound levels (total sound – ambient residual sound) the project is in compliance with the 1-hour LA<sub>EQ</sub> 40 dBA nighttime project limit. By demonstrating that the identified periods at each location meet the more stringent nighttime limit, it follows that the daytime limit of 45 dBA is also met.

Table 6-1 provides an overall summary of the sound levels observed for each of the monitoring locations. The highest 1-hour  $L_{EQ}$  sound level was observed at Location 3 with a level of 36 dBA. The lowest 1-hour  $L_{EQ}$  was observed at Location 5 with a level of 30 dBA. The necessary criteria and process for identifying periods of maximum turbine sounds resulted in only one time period for compliance assessment at Locations 1 and 2. Because there was only one suitable data period, the minimum and maximum values are the same for Locations 1 and 2. Two periods were identified at Location 3 for assessment of maximum turbine sound, both of which resulted in the same sound level. A total of 21 suitable measurement periods are presented for Location 5.

Table 6-1: Summary of Turbine Specific Sound Levels Evaluated at Each Monitoring Location

Location #	Full Results in Table	1 hour $L_{AEQ}$ (dBA)	
		Minimum	Maximum
1	Table 6-4	34	34
2	Table 6-7	33	33
3	Table 6-10	36	36
5	Table 6-13	30	35

Tables of the hourly sound metrics at each location along with the local ground wind speed, lowest hourly temperature, and closest turbine(s) operating conditions are provided in Appendix B. It should be stated that these levels are provided without any transient sounds excluded. Moreover, the levels shown in Appendix B represent total sound (with the exception of the shutdown period on November 16, 2020 from 10:10 pm to 11:10 pm) and not the facility specific sound, therefore it is not appropriate to compare those directly to the limits.

Monitoring equipment was first in place at all locations from November 9<sup>th</sup> to November 30<sup>th</sup>, 2020. After collecting the equipment on November 30<sup>th</sup> it was found that the MadgeTech Wind101A anemometer at Location 1 was no longer functioning and data from the device could not be retrieved. Without any local ground wind data at this location, it was decided to return to the site again for additional sound monitoring in order to have a complete set of data. For further completeness, the sound monitoring equipment was remobilized at all four monitoring locations from December 4<sup>th</sup>, 2020 through the end of the official fall season at midnight on December 21<sup>st</sup>, 2020. The data presented for Location 1 in this report only includes this December 2020 time period. The other sound monitoring locations include data from both November and December periods.

After collecting the equipment on November 30<sup>th</sup> it was found that the audio recording devices lost battery power a few days before the end of the November monitoring period. This was due to colder than expected temperatures, and only affected compliance evaluation periods at Location 5, as noted in Section 6.6. The criteria for identifying maximum turbine sounds were not met at the other locations (or were without ground wind data in the case of Location 1) past the point in which the batteries were exhausted.

## 6.1 METEOROLOGICAL AND TURBINE OPERATING CONDITIONS

Appendix A presents the meteorological and turbine operating conditions recorded during the fall sound monitoring period from November 9<sup>th</sup> through December 21<sup>st</sup>, 2020. Regional precipitation and temperature data from the nearby Jaffrey Airport Silver Ranch National Weather Service station are presented in Figures A-1 and A-2. The wind farm turbine operational data are presented in Figures A-3 and A-4, showing the average of the 9 turbines' hub height wind speed and direction every 10 minutes, as well as the total project power generation. Wind speed, direction, and temperature recorded with the weather station at monitoring location 5 are presented in Figures A-5 and A-6. The greatest winds generally traveled from west to east, which is typical for this area. Ice accretion caused the weather station's anemometer cups to temporarily stop working from 9:00 pm on December 5, 2020 through 2:00 pm on December 6, 2020.

A total of 420 hours at Location 1, and at least 917 hours at Locations 2, 3, and 5 were analyzed beginning from November 9<sup>th</sup>, 2020 through December 21<sup>st</sup>, 2020. There were a total of 180 ten minute periods reported from the weather station at Location 5 that were below the instrument minimum rating (14° F). This affected

35 hourly periods. These periods were excluded from the data analysis when considering maximum turbine sound levels. Any hours with a trace or more of precipitation were also excluded from the data analysis.

## 6.2 CRITERIA FOR IDENTIFYING TURBINE ONLY SOUNDS

To identify the proper times for assessing project sound compliance, Acentech analyzed all of the turbine, meteorological, and sound level meter data for maximum facility sound conditions at each monitoring location. The following conditions are part of the NHSEC site rule 301.18, ANSI S12.9-1992 2013 guidelines, and within the professional judgement by Acentech.

1. Times with local ground wind speed greater than 3 m/s measured by the local anemometers near the sound level meters were excluded.
2. Times with site temperatures below the instrument minimum specification (14° F) were excluded.
3. Times with measured or observed precipitation in the area were excluded.
4. Table 4-1 shows that the turbines reach their maximum sound power levels when generating above 958 kW. Hours when the nearest turbine(s) operated above this level were included in the analyses. The 10-minute turbine operational data was inspected for each of these hours to confirm that the maximum sound power levels were met for the entire hour.
  - a. There were a number of cases where the maximum sound level conditions were met for only a portion of the hour. Periods with 30 or more consecutive minutes of maximum sound conditions were analyzed. The 10 minute intervals within the hour that met the criteria were included for the analysis, and the intervals that did not meet the criteria were excluded. It is reasonable to assume that had the turbines continued to operate at full sound power level constantly for a full hour that the 1-hour  $L_{EQ}$  and statistical levels would be the same as the shorter duration  $L_{EQ}$  and  $L_n$  values observed. This approach is in accordance with ANSI S12.9-2013 Part 3, which says that the 1-hour sound data may be reported as long as 30 minutes (50% of the measurement period) or more in that hour meet the criteria to be included in the analysis.
5. ANSI S12.9-2013 Part 3 cites another ANSI publication (S12.18-1994) outlining the general method for the outdoor measurement of sound pressure levels. This document states that sound levels from a source should be measured under downwind conditions +/- 45 degrees. Therefore, only times when the monitoring locations were +/- 45 degrees downwind of the closest turbine(s) are included.
  - a. Per ANSI S12.18-1994:  
*"if the distance between the source and receiver exceeds 30 m and the grazing angle is smaller than 20 degrees, measurements shall only be made with the receiver downwind from the source and when the direction of the wind vector is within an angle +/- 45 degrees of the direction connecting the center of the sound source and center of the specified receiver area."*
  - b. In some instances, especially at locations upwind from the prevailing wind directions, there were no times when the closest wind turbine(s) were operating at full sound power and within +/- 45 degrees upwind from a monitoring location. In these cases, the angle was increased to +/-67.5 degrees (135 degree downwind angles). If the expanded downwind criterion was still not met, then the periods with the closest turbine(s) operating at full sound power under any wind direction were considered. This was done in order to identify the maximum sound levels based on the conditions experienced during the monitoring period.
6. In some cases there may be many periods for compliance consideration, but the sound levels are controlled by non-turbine sounds. ANSI S12.9 2013 Part 3 suggests that a steady sound source shouldn't vary by more than 3 decibels over the period of measuring its sound levels. In keeping with this statement, periods in which the difference between the  $LA_{10}$  and  $LA_{90}$  sound levels are small are indicative of steady sound conditions, presumably from the turbines after all other evaluation criteria are met. It will be noted whenever this criterion is used.

7. Attended measurements and audio file examinations were used in certain situations to remove periods with extraneous sound sources that were not part of the turbine sounds, such as traffic, wildlife, etc.
8. ANSI S12.9-2013 Part 3 Sections 6.9(b) and (c) state that *“weighted [sound] levels should never be considered if there is audible insect, bird, or leaf noise”*. The overall A and C weighted sound levels are to be recalculated by corrected octave or 1/3 octave band data. *“The recalculation shall exclude the octave bands from 2 kHz to 8 kHz if there is audible insect, bird, or leaf rustle noise in the measurements”*.

ANSI-ASA S12.100-2014<sup>9</sup> is a standard that supplements ANSI S12.9-2013 Part 3. This document states that exclusion of these sounds is to be done by only including all of the octave bands up through 1,000 Hz or the 1/3 octave bands up through 1,250 Hz, and then recalculating the overall sound level. *“The resulting data can be used to characterize residual sound levels with respect to anthropogenic noise. Data obtained in quiet residential areas can be used to assess the residual sound in relation to manmade noise sources such as wind turbine generators, compressor stations or pipelines, highways, and airports”*.

No insect sounds were observed during this fall sound monitoring campaign.

### 6.3 LOCATION 1 – KEENE ROAD (ROUTE 9)

Sound level and wind measuring equipment was deployed on the side of the driveway at 354 Keene Road approximately 40 meters from the street and 15 meters from the edge of the driveway. These setbacks are similar to other houses along Keene Road. The sound levels at this location were heavily influenced by road traffic. Frequent trucks driving over rumble strips in the pavement produced the highest sound levels. Other sources of sound were wind in the trees, snow falling from tree limbs, bird calls, and aircraft in the sky. Location 1 is due north of the project site and approximately 900 meters from turbine 1.

As noted in Section 6.0, the monitoring equipment was first in place at this location from November 9th to November 30th, 2020. After collecting the equipment on November 30th it was found that the MadgeTech Wind101A anemometer was no longer functioning and data from the device could not be retrieved. Without any local ground wind data at this location, it was decided to return to the site again for additional sound monitoring in order to have a complete set of data. For further completeness, the sound monitoring equipment was remobilized at all four monitoring locations from December 4th, 2020 through the end of the official fall season at midnight on December 21st, 2020. The data presented for Location 1 in this report only includes this December 2020 time period.

Data was collected for a total of 420 hours at Location 1 during the December monitoring period. There were no periods with local ground winds above 3 m/s. After eliminating periods with regional precipitation and temperatures below 14 F there are a total of 312 1-hour periods in the analysis. Table 6-2 summarizes the range of all hourly A-weighted and C-weighted sound levels measured at monitoring Location 1. A table of all hourly sound metrics at Location 1 as well as the local ground wind speed and nearest turbine data is provided in Appendix B, Table B-1.

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<sup>9</sup> ANSI-ASA S12.100-2014 “Methods to Define and Measure the Residual Sound in Protected Natural and Quiet Residential Areas”.

Table 6-2: Location 1 Hourly Sound Level Summary (December 4<sup>th</sup> through December 21<sup>st</sup>, 2020)

	A-Weighted Sound Metrics			C-Weighted Sound Metrics		
	LA <sub>90</sub>	LA <sub>EQ</sub>	LA <sub>10</sub>	LC <sub>90</sub>	LC <sub>EQ</sub>	LC <sub>10</sub>
	(dBA)			(dBC)		
Minimum	23	37	34	36	45	44
Maximum	49	62	66	56	67	69
Median	36	55	60	46	58	62
Average	36	54	57	46	58	60

The minimum L<sub>EQ</sub> values in this table are higher than the minimum L<sub>10</sub> values. There were a total of 74 hours in which the L<sub>EQ</sub> was higher than the L<sub>10</sub>. An inspection of these times showed that this happened very late at night and early in the mornings when only a few passing cars on Route 9 in an hour was enough to effect the L<sub>EQ</sub> metric but not the L<sub>10</sub>.

### 6.3.1 Location 1 Attended Measurements

Acentech personnel were on site for attended measurements at this location from approximately 08:00 pm on November 16<sup>th</sup>, until 1:30 am on November 17<sup>th</sup>. During this time the 10-minute average wind speeds measured at the turbine hub heights ranged from 8.5 to 11.6 m/s, and the average turbine generations were all above 958 kW for at least an hour during the attending period. The 10-minute average local ground wind speeds at Location 1 could not be retrieved from the anemometer. However, the local ground wind speeds were confirmed to be calm throughout the night from observation and confirmed below 3 m/s from checks with a Kestrel 3500 handheld weather meter. All 9 turbines were shut down for an entire hour from 10:10 pm until 11:10 pm. This time period has been used to quantify the ambient residual sound level at this location.

Because Location 1 is so close to a road with frequent vehicle traffic, the sound pressure levels are dominated by this source. Even in the middle of the night during the attended measurements there were cars and trucks passing on the road every few minutes. The peak sound levels from vehicle passes ranged from 50 to 70 dBA. When a vehicle's tires drove over the rumble strips in the pavement, a low frequency tonal sound was observed. No tonal sounds were observed besides the rumble strip.

### 6.3.2 Location 1 – Evaluation Data

There were no 10-minute periods at Location 1 that met the turbine power and wind direction criteria listed in Section 6.2. Being located north of turbine 1 means that to meet the downwind conditions the wind needs to be traveling steadily and strongly from the south, which occurred very little during the fall monitoring period. Expanding the downwind criteria to +/- 67.5 degrees yielded 7 time periods for consideration of the maximum turbine sound.

These periods were still significantly affected by vehicle traffic on Route 9. Therefore, the attending notes and recorded audio files were used to identify each individual car pass event and other extraneous non-turbine sounds in the set of hourly data. Those sources were excluded from the analysis by removing their sound levels from the 0.100 second sampled sound level meter data. The L<sub>90</sub>, L<sub>EQ</sub>, and L<sub>10</sub> sound level was then recalculated from the remaining filtered data. Six of the seven periods identified for evaluating the maximum turbine sounds were found to contain almost constant non-turbine sounds from traffic on Route 9, leaving only one period suitable for assessment of the maximum turbine sound levels. According to ANSI S12.9-2013 Part 3, if more than half of the measurement period is excluded, then the entire hour may be omitted.

A figure showing the graphical results of the transient sound filtering process for the overall A-weighted sound levels is presented in Figure 6-1. The process was computed for the individual 1/3 octave band amplitudes as well. The resulting LA<sub>EQ</sub> 1/3 octave band amplitudes did not exhibit any tonal attributes.



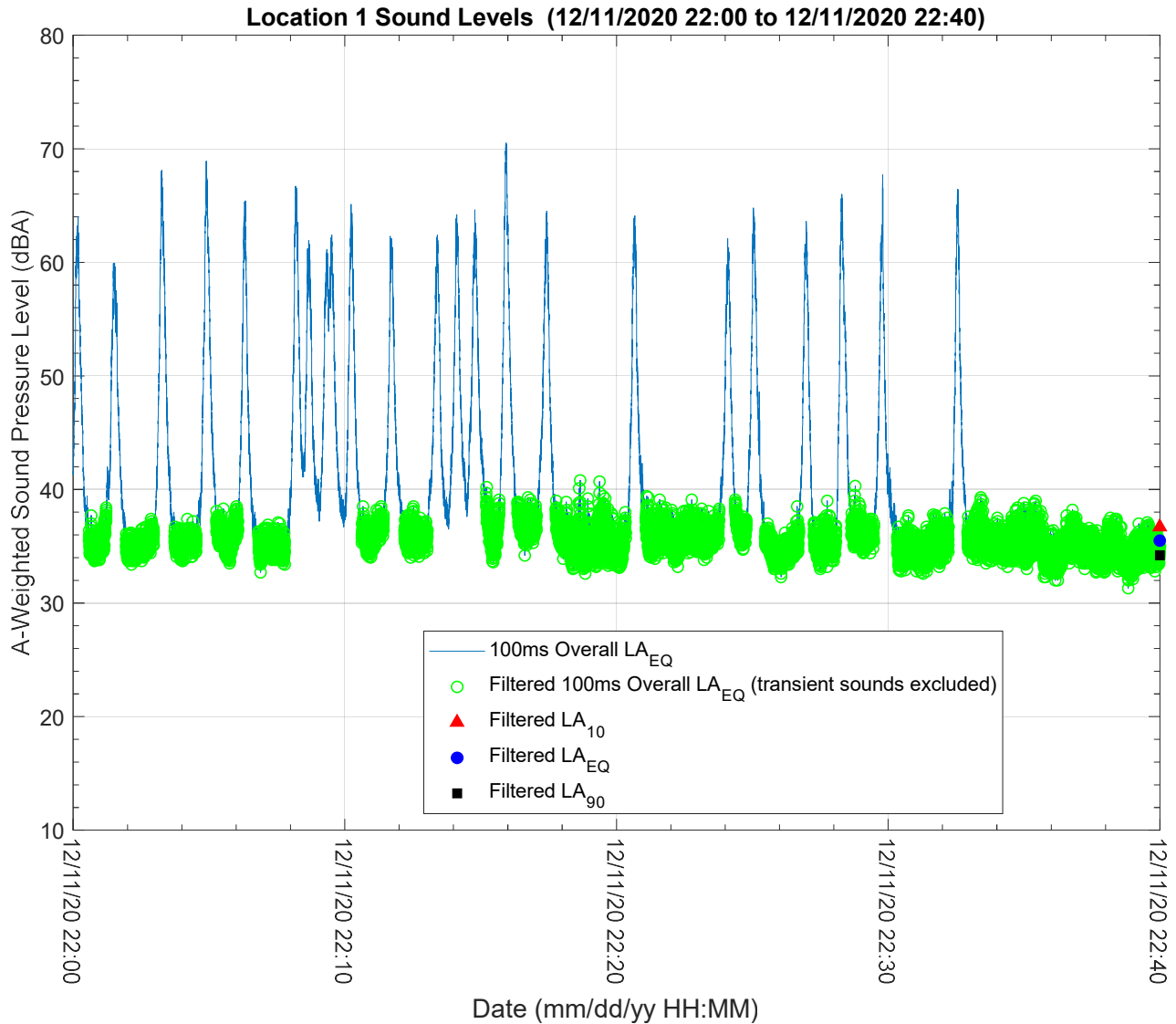


Figure 6-1: Example Exclusion of Non-Turbine Sounds from Monitoring Data at Location 1

A summary of the final sound levels with non-turbine sounds filtered out is presented in Table 6-3.

Table 6-3: Location 1 Period Identified for Turbine Sound Compliance Evaluation

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			WTG-1 Average Power Generation	WTG-1 Average Hub Height Wind Speed	WTG-1 Average Hub Height Wind Direction	Local Ground Wind Speed
		L <sub>EQ</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>EQ</sub>	L <sub>10</sub>	L <sub>90</sub>				
Start	End	(dBA)			(dBC)			(kW)	(m/s)	(deg)	(m/s)
12/11/2020 22:00	12/11/2020 22:40	35	37	34	51	53	49	1316	7.4	243	0.0

The values in Table 6-3 represent the total sound present, meaning the ambient residual and the wind turbine project together. The turbine-specific sound levels may be calculated by subtracting the ambient residual L<sub>EQ</sub> levels without the turbines present from the total sound L<sub>EQ</sub> levels on a 1/3 octave band basis, as described in Section 3.2 of this report. The observed LA<sub>EQ</sub> and LC<sub>EQ</sub> values at Location 1 during the November 16<sup>th</sup> turbine shutdown period with transient traffic sounds from Route 9 excluded were 32 dBA and 43 dBC. The results of

the turbine-specific sound levels at Location 1 are presented in Table 6-4. The turbine-specific LA<sub>EQ</sub> sound levels are below the nighttime project limit of 40 dBA, thus demonstrating compliance with the wind project's most stringent sound limits at this location.

Table 6-4: Location 1 Turbine-Specific Sound Levels

Time Period		LA <sub>EQ</sub>	LC <sub>EQ</sub>
Start	End	(dBA)	(dBC)
12/11/2020 22:00	12/11/2020 22:40	34	50

#### 6.4 LOCATION 2 – LOVEREN MILL ROAD

Sound level and wind monitoring equipment was deployed approximately 15 meters north of the driveway at 47 Loveren Mill Road, and 18 meters from the road. Location 2 is situated northwest of the project site approximately 1,700 meters from turbine 1 and 670 meters from Route 9. The sound levels at this location were influenced by truck traffic on Route 9, wind gusts in the trees, as well as homeowner activities and a barking dog.

Data was collected for a total of 919 hours at Location 2 during the fall sound monitoring campaign. There were no periods with local ground winds above 3 m/s. After eliminating periods with regional precipitation and temperatures below 14 F there are a total of 731 1-hour periods in the analysis. Table 6-5 summarizes the range of all hourly sound levels measured at monitoring Location 2.

Table 6-5: Location 2 Hourly Sound Level Summary

	A-Weighted Sound Metrics			C-Weighted Sound Metrics		
	LA <sub>90</sub>	LA <sub>EQ</sub>	LA <sub>10</sub>	LC <sub>90</sub>	LC <sub>EQ</sub>	LC <sub>10</sub>
	(dBA)			(dBC)		
Minimum	18	21	22	32	35	37
Maximum	52	61	65	59	71	75
Median	31	37	38	44	49	50
Average	31	37	38	44	49	50

A table of all hourly sound metrics at Location 2 as well as the local ground wind speed and nearest turbine data is provided in Appendix B, Table B-2.

##### 6.4.1 Location 2 – Attended Measurements

Acentech personnel were on site for attended measurements at this location from approximately 08:00 pm on November 16<sup>th</sup>, until 1:30 am on November 17<sup>th</sup>. During this time the 10-minute average wind speeds measured at the turbine hub heights ranged from 8.5 to 11.6 m/s, and the average turbine generations were all above 958 kW for at least an hour during the attending period. The 10-minute average local ground wind speeds at Location 2 were measured between 0.0 and 0.7 m/s. All 9 turbines were shut down for an entire hour from 10:10 pm until 11:10 pm. This time period has been used to quantify the ambient sound level at this location.

Road sounds from frequent vehicle traffic on Route 9 were observed, as well as an occasional high altitude aircraft. The maximum sound pressure levels are controlled by vehicle sounds on Route 9 at night and from homeowner activities during the day. Wind gust sounds in the trees were also frequent. No tonal sounds were observed besides rumble strip sounds occurring from trucks on Route 9.

##### 6.4.2 Location 2 – Evaluation Data

There was one period at Location 2 that met the turbine power and wind direction criteria listed in Section 6.2. Being located northwest of turbine 1 means that to meet the downwind conditions the wind needs to be traveling strongly from the southeast, which occurred infrequently during the fall monitoring period. A summary of the sound levels is presented in Table 6-6. The resulting LA<sub>EQ</sub> 1/3 octave band amplitudes did not exhibit any tonal attributes, thereby avoiding the 5 dB penalty for a pure tone condition.

Table 6-6: Location 2 Periods Identified for Turbine Sound Compliance Evaluation

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			WTG-1 Average Power Generation	WTG-1 Average Hub Height Wind Speed	WTG-1 Average Hub Height Wind Direction	Local Ground Wind Speed
Start	End	LEQ	L10	L90	LEQ	L10	L90				
		(dBA)			(dBC)			(kW)	(m/s)	(deg)	(m/s)
12/16/2020 21:20	12/16/2020 22:00	34	37	30	47	49	44	1241	8.0	101	0.8

The values in Table 6-6 represent the total sound present, meaning the ambient residual and the wind project together. The turbine-specific sound levels may be calculated by subtracting the ambient residual  $L_{EQ}$  levels without the turbines present from the total sound  $L_{EQ}$  levels, on a 1/3 octave basis as detailed in Section 3.2 of this report. The observed  $LA_{EQ}$  and  $LC_{EQ}$  values at Location 2 during the November 16<sup>th</sup> turbine shutdown period with transient traffic sounds from Route 9 excluded were 29 dBA and 38 dBC and may be subtracted on a 1/3 octave band basis from the total sound  $L_{EQ}$  levels. The results of this calculation yield the turbine-specific sound levels at Location 2 and are presented in Table 6-7. The turbine-specific  $LA_{EQ}$  sound levels are below the nighttime project limit of 40 dBA, thus demonstrating compliance with the wind project's most strict sound limits at this location.

Table 6-7: Location 2 Turbine-Specific Sound Levels

Time Period		$LA_{EQ}$	$LC_{EQ}$
Start	End	(dBA)	(dBC)
12/16/2020 21:20	12/16/2020 22:00	33	47

### 6.5 LOCATION 3 – SALMON BROOK ROAD

Sound level and wind monitoring equipment was deployed in the woods approximately 38 meters beyond a locked gate in an area just south of Salmon Brook Road. This location is approximately 1,300 meters from Route 9. Traffic along Route 9, wind gusts, birds, and rustling vegetation were all sources that influenced the sound levels at this site. Location 3 is due west of the project site and closest to turbines 5, 6, and 7 at a distance of 1,300 to 1,400 meters.

Data was collected for a total of 917 hours at Location 3 during the fall sound monitoring campaign. There were no periods with local ground winds above 3 m/s. After removing periods with regional precipitation and temperatures below 14 F there are a total of 729 1-hour periods in the analysis. Table 6-8 summarizes the range of all hourly sound levels measured at monitoring Location 3. A table of all hourly sound metrics at Location 3 as well as the local ground wind speed and nearest turbine data is provided in Appendix B, Table B-3.

Table 6-8: Location 3 Hourly Sound Level Summary

	A-Weighted Sound Metrics			C-Weighted Sound Metrics		
	$LA_{90}$	$LA_{EQ}$	$LA_{10}$	$LC_{90}$	$LC_{EQ}$	$LC_{10}$
	(dBA)			(dBC)		
Minimum	16	20	22	30	34	36
Maximum	49	59	61	56	61	62
Median	31	34	36	45	48	49
Average	30	34	36	44	48	49

### 6.5.1 Location 3 – Attended Measurements

Acentech personnel were on site for attended measurements at this location from approximately 08:00 pm on November 16<sup>th</sup>, until 1:30 am on November 17<sup>th</sup>. During this time the 10-minute average wind speeds measured at the turbine hub heights ranged from 8.5 to 11.6 m/s, and the average turbine generations were all above 958 kW for at least an hour during the attending period. The 10-minute average local ground wind speeds at Location 3 were measured between 0.0 and 0.1 m/s.

All 9 turbines were shut down for an entire hour from 10:10 pm until 11:10 pm. Even though the ground level wind speeds were low, the amount of wind gust sounds in the trees affecting the overall sound level made this time period unsuitable for establishing ambient residual levels at Location 3. In lieu of this planned shutdown period to establish the ambient background sound levels, the turbine data was inspected for unplanned periods with all 9 turbines inactive. There were 27 hours when all 9 turbines produced 0 kW or less (without precipitation) during the fall monitoring campaign. The lowest hourly LA<sub>EQ</sub> at Location 3 during those hours was chosen to represent the ambient environment. This occurred from November 24<sup>th</sup> at 11:00 pm to 00:00 am on November 25<sup>th</sup>, 2020. This is a conservative approach, as the ambient residual sound level when the turbines are operating at full sound power level is likely to be some amount higher.

During the night of attended measurements road sounds from frequent vehicle traffic on Route 9 were observed, as well as wind in the trees, and occasional animal sounds. No tonal sounds were observed.

### 6.5.2 Location 3 – Evaluation Data

There were two periods at Location 3 that met the turbine power and wind direction criteria listed in Section 6.2. Being located on the west side of the ridgeline means that to meet the downwind conditions the wind needs to be traveling strongly from the east/southeast, which occurred very little during the fall monitoring period. A summary of the sound levels in these two periods is presented in Table 6-9. The resulting LA<sub>EQ</sub> 1/3 octave band amplitudes did not exhibit any tonal attributes, thereby avoiding the 5 dB penalty for a pure tone condition.

Table 6-9: Location 3 – Periods Identified for Turbine Sound Compliance Evaluation

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Average of WTG-5 WTG-6 WTG-7 Power Generations (kW)	Average of WTG-5 WTG-6 WTG-7 Hub Height Wind Speeds (m/s)	Average of WTG-5 WTG-6 WTG-7 Hub Height Wind Directions (deg)	Local Ground Wind Speed (m/s)
		LEQ	L10	L90	LEQ	L10	L90				
Start	End	(dBA)			(dBC)			(kW)	(m/s)	(deg)	(m/s)
11/13/2020 2:20	11/13/2020 2:50	36	38	35	50	52	48	1518	8.3	89	0.0
12/12/2020 14:10	12/12/2020 15:00	36	37	35	50	52	48	1706	8.7	91	0.0

The values in Table 6-9 represent the total sound present, meaning the ambient residual and the wind project together. The turbine-specific sound levels may be calculated by subtracting the ambient residual LEQ levels without the turbines present from the total sound LEQ levels on a 1/3 octave band basis. The observed LA<sub>EQ</sub> and LC<sub>EQ</sub> values during the identified ambient period were 22 dBA and 38 dBC and may be subtracted from the total sound LEQ levels. The results of this calculation yield the turbine-specific sound levels at Location 3 and are presented in Table 6-10. The turbine-specific LA<sub>EQ</sub> sound level is below the nighttime project limit of 40 dBA, thus demonstrating compliance with the wind project's most strict sound limits at this location.

Table 6-10: Location 3 Turbine-Specific Sound Levels

Time Period		LA <sub>EQ</sub>	LC <sub>EQ</sub>
Start	End	(dBA)	(dBC)
11/13/2020 2:20	11/13/2020 2:50	36	50
12/12/2020 14:10	12/12/2020 15:00	36	50

## 6.6 LOCATION 5 – GREGG LAKE ROAD

Sound level and weather measurement equipment was deployed towards the end of a park at the Antrim Town Beach on Gregg Lake Road. The sound level meter was approximately 84 meters from Gregg Lake Road. The sound levels at this site were influenced by vehicles on Gregg Lake Road, people using the park, boats on the lake, wildlife sounds (particularly geese honking), water noise, and wind gusts. There was also a covered picnic table area on site that occasionally made creaking sounds when the structure was pushed by wind gusts. Location 5 is due east of the project site. Turbines 2, 3, 6, 7, and 8 are all within 2,700 to 2,800 meters away.

After collecting the equipment on November 30<sup>th</sup> it was found that the audio recording device had lost battery power at approximately 11:30 pm on November 22<sup>nd</sup>, 2020. Because this data is missing, any periods that met the conditions for analyzing maximum sound levels between 11:30 pm on November 22<sup>nd</sup> and when the equipment was retrieved on November 30<sup>th</sup>, 2020 have not been considered.

Data was collected for a total of 921 hours at Location 5 during the fall sound monitoring campaign. There were a number of times when the local wind speeds were above 3 m/s. Additionally, ice buildup caused the weather station's anemometer cups to temporarily stop working from 9:00 pm on December 5, 2020 through 2:00 pm on December 6, 2020. After eliminating periods with regional precipitation, temperatures below 14 F, and high local ground winds there are a total of 620 1-hour periods in the analysis. Table 6-11 summarizes the range of all hourly sound levels measured at monitoring Location 5.

Table 6-11: Location 5 Hourly Sound Level Summary

	A-Weighted Sound Metrics			C-Weighted Sound Metrics		
	LA <sub>90</sub>	LA <sub>EQ</sub>	LA <sub>10</sub>	LC <sub>90</sub>	LC <sub>EQ</sub>	LC <sub>10</sub>
	(dBA)			(dBC)		
Minimum	16	19	20	31	34	35
Maximum	53	61	64	63	77	81
Median	29	37	37	46	51	53
Average	29	37	38	46	51	53

A table of all hourly sound metrics at Location 5 as well as the local ground wind speed and nearest turbine data is provided in Appendix B, Table B-4.

### 6.6.1 Location 5 – Attended Measurements

Acentech personnel were on site for attended measurements at this location from approximately 08:00 pm on November 16<sup>th</sup>, until 1:30 am on November 17<sup>th</sup>. During this time the 10-minute average wind speeds measured at the turbine hub heights ranged from 8.5 to 11.6 m/s, and the average turbine generations were all above 958 kW for at least an hour during the attending period. The 10-minute average local ground wind speeds at Location 5 were measured between 0.4 and 2.7 m/s. All 9 turbines were shut down for an entire hour from 10:10 pm until 11:10 pm. This time period has been used to quantify the ambient sound level at this location.

Vehicles on Gregg Lake Road, wind gusts, wildlife, and aircraft were all noted sound sources during the attended measurements. No tonal sounds were observed.

**6.6.2 Location 5 – Evaluation Data**

There were 60 periods in which the turbine operational data met the conditions for analyzing the maximum sound levels and for which there are audio files to examine. The 0.100 second overall sound level data and audio files for each period were inspected to assess suitability for compliance evaluation. Many periods experienced non-turbine sounds more than 50 percent of the time. These sounds include wind gusts, geese honking, traffic on Gregg Lake Road, and people activity at the park. After these inspections there remain 21 periods suitable for evaluating the maximum turbine sound levels at this location.

A summary of the final sound levels is presented in Table 6-12. The resulting LA<sub>EQ</sub> 1/3 octave band amplitudes did not exhibit any tonal attributes, thereby avoiding the 5 dB penalty for a pure tone condition.

Table 6-12: Location 5 Periods Identified for Turbine Sound Compliance Evaluation

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Average of WTG-2 WTG-3 WTG-6 WTG-7 WTG-8 Power Generations (kW)	Average of WTG-2 WTG-3 WTG-6 WTG-7 WTG-8 Hub Height Wind Speeds (m/s)	Average of WTG-2 WTG-3 WTG-6 WTG-7 WTG-8 Hub Height Wind Directions (deg)	Local Ground Wind Speed (m/s)
		LEQ	L10	L90	LEQ	L10	L90				
Start	End	(dBA)			(dBC)			(kW)	(m/s)	(deg)	(m/s)
11/17/2020 19:00	11/17/2020 19:30	35	36	34	55	57	53	2128	9.7	288	1.6
11/18/2020 17:30	11/18/2020 18:00	31	32	29	51	53	49	1601	8.8	307	0.9
12/6/2020 22:40	12/6/2020 23:20	33	35	32	54	56	52	3091	12.3	283	2.1
12/7/2020 2:30	12/7/2020 3:00	34	36	33	54	56	52	3058	12.1	289	2.2
12/7/2020 4:10	12/7/2020 5:00	33	34	32	54	55	52	2893	11.3	293	1.7
12/7/2020 5:00	12/7/2020 6:00	34	35	32	54	56	51	2785	11.0	294	2.0
12/7/2020 6:00	12/7/2020 7:00	34	35	33	54	56	52	2482	10.2	295	1.2
12/8/2020 16:10	12/8/2020 17:10	34	35	32	53	54	50	1953	9.5	314	1.8
12/8/2020 17:10	12/8/2020 17:50	34	35	33	53	55	51	2444	10.6	313	1.8
12/9/2020 0:50	12/9/2020 1:20	31	33	30	50	52	48	1464	8.5	290	1.8
12/10/2020 5:00	12/10/2020 6:00	34	35	33	52	54	50	2237	9.8	283	1.9
12/10/2020 6:00	12/10/2020 6:30	35	36	33	52	54	50	1916	9.3	292	1.9
12/10/2020 7:00	12/10/2020 8:00	35	36	34	55	57	52	2302	10.0	292	1.6
12/10/2020 18:30	12/10/2020 19:10	32	33	30	50	52	48	1893	9.2	290	0.8
12/13/2020 22:50	12/13/2020 23:50	34	35	32	52	55	49	2676	10.5	284	0.7
12/14/2020 0:00	12/14/2020 1:00	34	35	32	53	55	51	2686	10.8	291	1.3
12/14/2020 1:40	12/14/2020 2:30	33	34	31	51	53	49	1815	8.8	297	0.6
12/14/2020 18:30	12/14/2020 19:30	33	34	31	51	53	48	1598	8.7	290	1.5
12/14/2020 20:20	12/14/2020 21:20	34	35	32	54	56	52	2353	10.2	290	1.1
12/15/2020 19:00	12/15/2020 19:40	31	34	27	52	54	49	2059	9.7	298	2.0
12/21/2020 21:00	12/21/2020 21:30	31	33	30	49	50	46	1863	9.1	286	2.1

The values in Table 6-12 represent the total sound present, meaning the ambient residual and the wind project together. The turbine-specific sound levels may be calculated by subtracting the ambient residual LEQ

levels without the turbines present from the total sound  $L_{EQ}$  levels on a 1/3 octave basis, as detailed in Section 3.2. The observed  $LA_{EQ}$  and  $LC_{EQ}$  values at Location 5 during the shutdown period were 27 dBA and 41 dBC and may be subtracted from the total sound  $L_{EQ}$  levels.

The results of this calculation yield the turbine-specific sound levels at Location 5 and are presented in Table 6-13. The turbine-specific  $LA_{EQ}$  sound levels are below the nighttime project limit of 40 dBA, thus demonstrating compliance with the wind project's most strict sound limits at this location.

Table 6-13: Location 5 Turbine-Specific Sound Levels

Time Period		$LA_{EQ}$	$LC_{EQ}$
Start	End	(dBA)	(dBC)
11/17/2020 19:00	11/17/2020 19:30	35	55
11/18/2020 17:30	11/18/2020 18:00	30	51
12/6/2020 22:40	12/6/2020 23:20	33	54
12/7/2020 2:30	12/7/2020 3:00	34	54
12/7/2020 4:10	12/7/2020 5:00	33	53
12/7/2020 5:00	12/7/2020 6:00	33	54
12/7/2020 6:00	12/7/2020 7:00	33	54
12/8/2020 16:10	12/8/2020 17:10	33	52
12/8/2020 17:10	12/8/2020 17:50	34	53
12/9/2020 0:50	12/9/2020 1:20	31	49
12/10/2020 5:00	12/10/2020 6:00	34	52
12/10/2020 6:00	12/10/2020 6:30	34	52
12/10/2020 7:00	12/10/2020 8:00	34	54
12/10/2020 18:30	12/10/2020 19:10	31	50
12/13/2020 22:50	12/13/2020 23:50	33	52
12/14/2020 0:00	12/14/2020 1:00	33	53
12/14/2020 1:40	12/14/2020 2:30	32	51
12/14/2020 18:30	12/14/2020 19:30	32	50
12/14/2020 20:20	12/14/2020 21:20	33	54
12/15/2020 19:00	12/15/2020 19:40	31	52
12/21/2020 21:00	12/21/2020 21:30	30	48

## 7.0 CONCLUSIONS

As required by the NHSEC Site Rule 301.18 for wind power generating facilities, a post construction sound level compliance evaluation was conducted for the Antrim Wind Farm during the fall 2020 season. The data were analyzed and compared to the appropriate limits set forth by the NHSEC and the agreement document with the town of Antrim effective January 16, 2018.

The sound level compliance assessment focused on periods when the greatest level of sound from the turbines could be expected at each of the monitoring locations given the conditions throughout the campaign. The facility's turbine operational data, local and regional meteorological data, and sound level measurements were all analyzed to identify these periods. After narrowing the evaluation times to these conditions, the data was further examined to exclude periods when non-turbine sounds impacted the environment (i.e. vehicles, bird calls, rustling vegetation). This necessary process for identifying periods of maximum turbine sounds resulted in only one time period for compliance assessment at Locations 1 and 2. Two periods were identified at Location 3, and 21 periods identified for Location 5.

The turbine-only sound levels for which the limits apply were evaluated by subtracting the appropriate ambient sound levels from the total sound (total sound minus the ambient residual equals the turbine-only sound levels).

The final results of these steps are detailed in Section 6 of this report and show that the turbine-only sound levels under maximum sound conditions experienced during the fall monitoring campaign were all below the lowest sound limits for the project. This was found to be the case at all four sound monitoring locations, thereby demonstrating the project's sound compliance.





## Appendix A

### Meteorological and Turbine Operational Charts

**Local Climatological Data**  
**Hourly Precipitation**  
**November 2020**

Current Location: Elev: 1040 ft. Lat: 42.8050° N Lon: -72.0036° W  
 Station: **JAFFREY MUNICIPAL AIRPORT SILVER RANCH, NH US WBAN: 72616354770 (KAFN)**

Generated on 12/01/2020

Date	For Hour (LST) Ending at																							Date	
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	NOON	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM		MID
01																	0.03	0.06	0.05	0.02	0.02			01	
02											T	T													02
03	T	T	0.01	0.01	0.02	0.03				T	T														03
04																									04
05																									05
06	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	06
07																									07
08																									08
09																									09
10																									10
11																		T	T	0.02	T	0.01			11
12					T						0.02	T	T	T	T										12
13													0.02	0.05	0.02	0.02	0.01								13
14										T	T														14
15																			0.01	0.07	0.20	0.13	0.16	0.09	15
16	0.01																								16
17																		T				T	T	T	17
18																									18
19																									19
20										T	T														20
21																									21
22															T	T									22
23		0.01	T	T	T	0.04	0.01	0.08	0.22	0.07	0.13	0.05	T												23
24																									24
25																							0.01s		25
26	T	T	0.08	0.09	0.08	0.07	0.23	0.18	0.06	0.11	0.04	0.11	0.01	0.01	0.13	0.06	0.02	0.01	0.01					26	
27																									27
28														T											28
29	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	29
30	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	30
<b>Maximum Short Duration Precipitation</b>																									
<b>Time Period (Minutes)</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>30</b>	<b>45</b>	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>150</b>	<b>180</b>													
Precipitation (inches)																									
Ending Date Time (yyyy-mm-ddhh:mi)																									

Hourly, daily, and monthly totals on the Daily Summary page and the Hourly Precipitation Table are shown as reported by the instrumentation T = Trace at the site. However, NWS does not edit hourly values for its ASOS sites, but may edit the daily and monthly totals for selected sites which will be reflected on the Daily Summary page.  
 s = Suspect  
 \* = Erroneous  
 blank = No precipitation observed  
 M = Missing

**Figure A1: National Oceanic & Atmospheric Administration – Local Climatological Data**  
**Hourly Precipitation at KAFN Station – November 2020**

**Local Climatological Data  
 Hourly Precipitation  
 December 2020**

Current Location: Elev: 1040 ft. Lat: 42.8050° N Lon: -72.0036° W

Generated on 01/08/2021

Station: **JAFFREY MUNICIPAL AIRPORT SILVER RANCH, NH US WBAN: 72616354770 (KAFN)**

Date	For Hour (LST) Ending at																					Date			
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	NOON	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM		10 PM	11 PM	MID
01	M	M	M	M	M	M	M	M	M	M	M													01	
02															T									02	
03																								03	
04																								04	
05						T	0.07s	0.06	0.11	0.09	0.14	0.12	0.19	0.13	0.11	0.09	0.11	0.04	0.03	0.02	0.02	T	T	T	05
06	T	T																						06	
07																								07	
08																								08	
09										T	T	T	T	T	0.01	T	T	T						09	
10																								10	
11																								11	
12														T			0.01	0.02	0.02	0.01				12	
13	0.04s	0.05	0.02																					13	
14										T	T	0.02	0.01	T	T							T		14	
15																								15	
16																						T	0.04	16	
17	0.09	0.10	0.19	0.10	0.11	0.05	T	0.04	0.04	0.08	0.07	0.08	0.02	T	T									17	
18																								18	
19																								19	
20														T	T	0.01	0.01	T	T					20	
21																								21	
22																								22	
23																								23	
24																T				T	0.01	T	0.01	0.03	24
25	T	0.05	0.18	0.15	0.25	0.16	0.22	0.09	0.15	0.19	0.11	0.02	0.03	0.07	0.08	0.13	0.01	T						25	
26																								26	
27																								27	
28																								28	
29																								29	
30	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	T	0.01	30
31	0.03	0.05	0.03	0.04	0.05	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	31

Maximum Short Duration Precipitation												
Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)												
Ending Date Time (yyyy-mm-ddhh:mi)												

Hourly, daily, and monthly totals on the Daily Summary page and the Hourly Precipitation Table are shown as reported by the instrumentation at the site. However, NWS does not edit hourly values for its ASOS sites, but may edit the daily and monthly totals for selected sites which will be reflected on the Daily Summary page.

T = Trace at  
 s = Suspect  
 \* = Erroneous  
 blank = No precipitation observed  
 M = Missing

Figure A2: National Oceanic & Atmospheric Administration – Local Climatological Data  
 Hourly Precipitation at KAFN Station – December 2020

**Local Climatological Data**  
**Daily Summary**  
**November 2020**

Current Location: Elev: 1040 ft. Lat: 42.8050° N Lon: -72.0036° W

Generated on 12/01/2020

Station: JAFFREY MUNICIPAL AIRPORT SILVER RANCH, NH US WBAN: 72616354770 (KAFN)

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather Weather Type	Precipitation (in)			Pressure (inHg)		Wind Avg Speed	Maximum Wind Speed = MPH Direction = Degrees					
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set		TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL		Peak Speed	Peak Dir	Sust. Speed	Sust. Dir		
	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22	23
01	48	27	38	-4.8				27	0	0623	1639	RA	0.18			28.89		5.3	27	240	17	260		
02	40	30	35	-7.4				30	0	0624	1638		T			28.46		10.8	36	270	22	300		
03	36	24	30	-12.1				35	0	0626	1637	SN FZFG BR FG	0.07			28.75		5.8	30	310	21	320		
04	53	27	40	-1.7				25	0	0627	1636		0.00			29.26		4.4	24	210	16	200		
05	65	32	49	7.6				16	0	0628	1635	FG BR	0.00			29.21		7.0	26	190	16	200		
07	73	46	60	19.0				5	0	0631	1632		0.00			29.08		4.7	17	240	12	250		
08	74*	38	56	15.3				9	0	0632	1631	BR	0.00			29.19		2.7	13	190	8	190		
09	73	33	53	12.7				12	0	0633	1630		0.00			29.18		2.9	12	280	9	260		
10	71	36	54	14.0				11	0	0635	1629	BR	0.00			29.03		5.1	17	200	13	190		
11	69	54	62	22.4				3	0	0636	1628	RABR	0.03			28.88		9.3	26	200	18	200		
12	64	36	50	10.8				15	0	0637	1627	RABR	0.02			28.85		3.0	20	300	12	290		
13	39	36	38	-0.9				27	0	0638	1626	RABR	0.12			28.90		2.0	14	280	9	260		
14	42	26	34	-4.5				31	0	0640	1625		T			28.92		3.1	19	300	12	270		
15	56	21	39	0.9				26	0	0641	1624	RABR	0.66			28.97		3.6	39	210	28	210		
16	47	37	42	4.2				23	0	0642	1623	RA	0.01			28.64		8.0	34	250	21	250		
17	41	27	34	-3.4				31	0	0643	1623	SN BR	T			28.76		4.1	21s	340s	13	280		
18	30	14	22	-15.0				43	0	0645	1622		0.00			29.14		5.4	23	330	15	340		
19	39	13*	26	-10.6				39	0	0646	1621		0.00			29.28		7.7	27	200	20	200		
20	57	39	48	11.7				17	0	0647	1620	RA	T			29.08		5.4	22	210	14	200		
21	56	30	43	7.1				22	0	0648	1620		0.00			29.13		3.2	18	300	13	270		
22	40	22	31	-4.5				34	0	0649	1619	BR HZ	T			29.33		1.3	13	100	7	110		
23	49	32	41	5.8				24	0	0651	1618	RABR	0.61			28.82		6.8	29	290	18	290		
24	40	23	32	-2.8				33	0	0652	1618		0.00			29.06		4.2	26	280	16	290		
25	40	23	32	-2.4				33	0	0653	1617	BR	0.01			29.19		1.4	12	150	10	150		
26	42	36	39	4.9				26	0	0654	1617	RA FG BR UP	1.30			28.92		1.3	12	310	8	300		
27	52	34	43	9.3				22	0	0655	1616	BR	0.00			28.87		1.8	12	260	9	170		
28	48	31	40	6.6				25	0	0656	1616	BR	T			28.80		4.7	23	270	15	260		
<b>Monthly Averages   Totals</b>																								
Departure from Normal (1981-2010)																								
Degree Days											Number of days with...													
Monthly					Season-to-date						Temperature				Precipitation			Snow		Weather				
Total		Departure			Total		Departure				Max		Min		>=0.01"	>=0.1"		>=1"	T-Storms	Heavy Fog				
Heating		Cooling			>=90°		<=32°				<=32°		<=0°		>=0.01"	>=0.1"		>=1"	T-Storms	Heavy Fog				
Date of 5-sec to 3-sec wind equipment change											Sea Level Pressure						Greatest...							
N/A											Maximum		Date				Time		24-Hr...			Snow Depth		
N/A											Minimum		Date				Time		24-Hr...			Snow Depth		
N/A											Minimum		Date				Time		24-Hr...			Snow Depth		
Station Augmentation																								
Name: N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A																								

Figure A3: National Oceanic & Atmospheric Administration – Local Climatological Data  
Temperature Summary at KAFN Station – November 2020

**Local Climatological Data**  
**Daily Summary**  
**December 2020**  
 Generated on 01/08/2021

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set		Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn		Avg SL	Avg Speed	Peak Speed	Peak Dir
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
01	59	27s	43s	10.7s				22s	0s	0700	1615					28.67		11.6	40	150	25	160
02	38	32	35	3.1				30	0	0701	1615		T			28.66		9.0	24	230	17	190
03	45	26	36	4.4				29	0	0702	1614		0.00			28.90		5.1	19	210	14	200
04	50	28	39	7.7				26	0	0703	1614		0.00			28.84		5.5	22	210	14	240
05	42	32	37	6.1				28	0	0704	1614	RA SN FG BR HZ	1.33			28.56		5.7	29	340	16	330
06	32	24	28	-2.6				37	0	0705	1614	SN	T			28.48		9.4	29	300	17	310
07	28	16	22	-8.3				43	0	0706	1614		0.00			28.58		5.3	20	270	14	270
08	26	23	25	-4.9				40	0	0707	1614		0.00			28.56		5.2	22	340	12	340
09	31	15	23	-6.6				42	0	0708	1614	SNBR	0.01			28.59		4.2	13	010	9	190
10	40	25	33	3.7				32	0	0708	1614		0.00			28.79		5.3	22	250	15	260
11	44	18	31	2.1				34	0	0709	1614	BR	0.00			28.98		4.9	17	200	12	200
12	40	29	35	6.4				30	0	0710	1614	RA FG FZFGBR	0.06			29.00		1.8	15	030	10	260
13	48	31	40	11.7				25	0	0711	1614	RA FG BRUP	0.11			28.78		3.2	17	250	12	270
14	34	28	31	3.0				34	0	0712	1615	SNBR	0.03			28.76		2.7	23	330	14	300
15	32	17	25	-2.7				40	0	0712	1615		0.00			28.95		7.5	29	290	17	290
16	22	11	17	-10.4				48	0	0713	1615	SN	0.04			29.23		2.7	17	030	9	040
17	22	15	19	-8.1				46	0	0714	1616	SN FZFG BRFG	0.97			28.87		6.1	27	020	14	020
18	31	-1	15	-11.8				50	0	0714	1616		0.00			29.05		0.7	11	330	7	340
19	31	-7*	12	-14.5				53	0	0715	1616		0.00			29.15		1.4	8	190	6	210
20	33	14	24	-2.2				41	0	0715	1617	SN FZFG BRFG	0.02			28.99		3.6	15	190	12	200
21	39	30	35	9.1				30	0	0716	1617	FZFG BRFG	0.00			28.68		2.3	11	200	7	200
22	39	19	29	3.4				36	0	0716	1618	BR	0.00			28.57		5.6	25	320	15	300
23	34	22	28	2.7				37	0	0717	1619		0.00			29.10		3.2	18	290	12	280
24	54	20	37	12.0				28	0	0717	1619	RABR	0.05			29.03		9.2	29	180	21	170
25	60*	36	48	23.3				17	0	0717	1620	RABR	1.89			28.51		12.6	33	150	22	160
26	36	25	31	6.5				34	0	0718	1620		0.00			28.56		9.2	25	260	18	260
27	36	20	28	3.8				37	0	0718	1621		0.00			29.00		4.3	19	240	13	250
28	42	24	33	9.1				32	0	0718	1622		0.00			29.00		7.5	21	210	16	200
29	37	16	27	3.3				38	0	0718	1623		0.00			29.08		8.1	36	270	24	290
30										0719	1623	RAFZRA										
<b>Monthly Averages   Totals</b>																						
Departure from Normal (1981-2010)																						
Degree Days												Number of days with...										
Monthly				Season-to-date				Temperature				Precipitation			Snow		Weather					
Total		Departure		Total		Departure		Max		Min		Precipitation			Snow		Weather					
Heating		Cooling		Date of 5-sec to 3-sec wind equipment change		Sea Level Pressure				Greatest...			24-Hr...		Snow Depth							
N/A		N/A		N/A		Maximum		Date		Time		Precip			Snowfall		Snow Depth					
N/A		N/A		N/A		Minimum		Date		Time		Precip			Snowfall		Snow Depth					
Date																						
<b>Station Augmentation</b>																						
Name: N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A																						

Figure A4: National Oceanic & Atmospheric Administration – Local Climatological Data  
 Temperature Summary at KAFN Station – December 2020

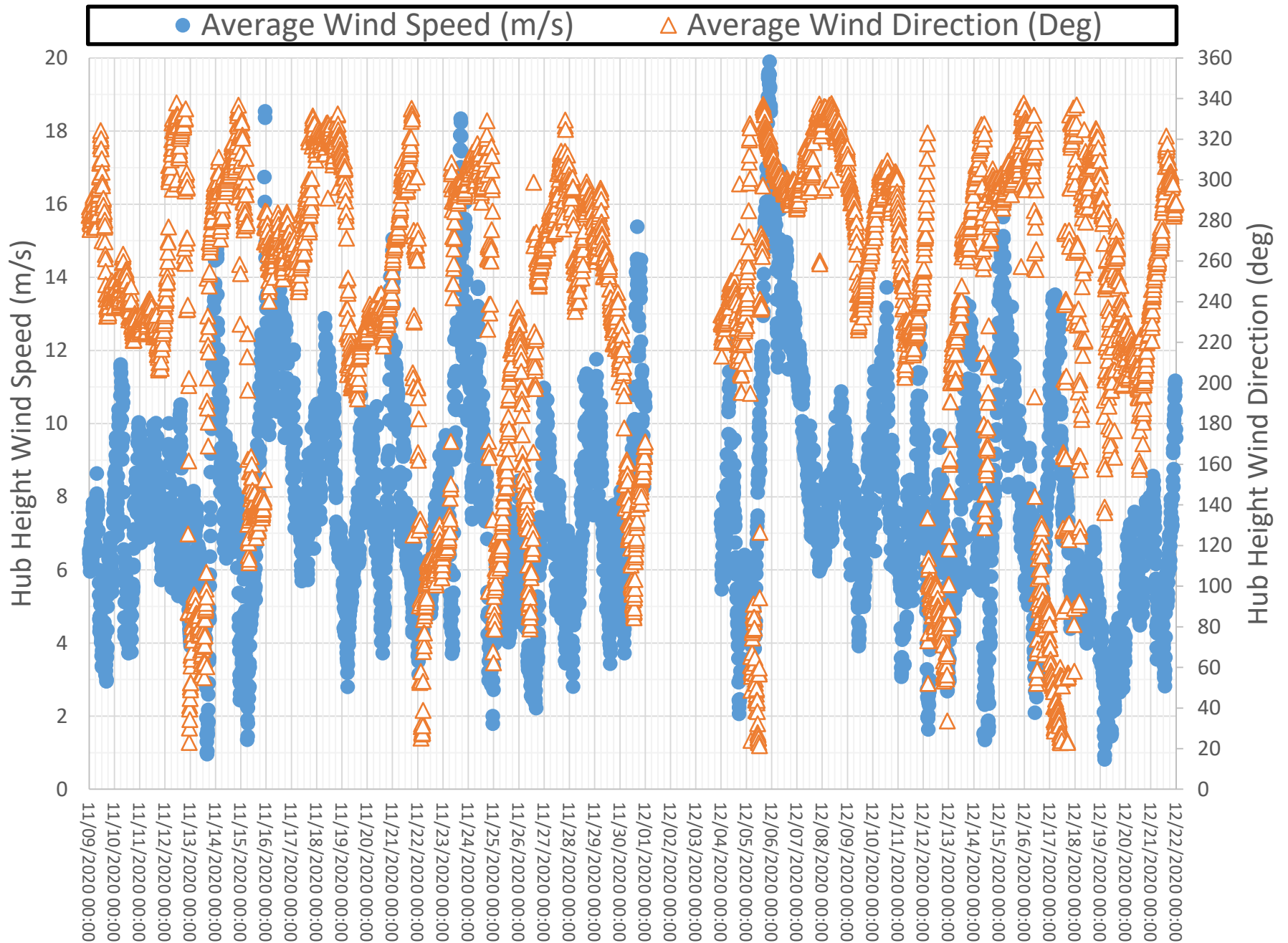


Figure A5: Average Turbine Hub Height Wind Speed and Direction Data

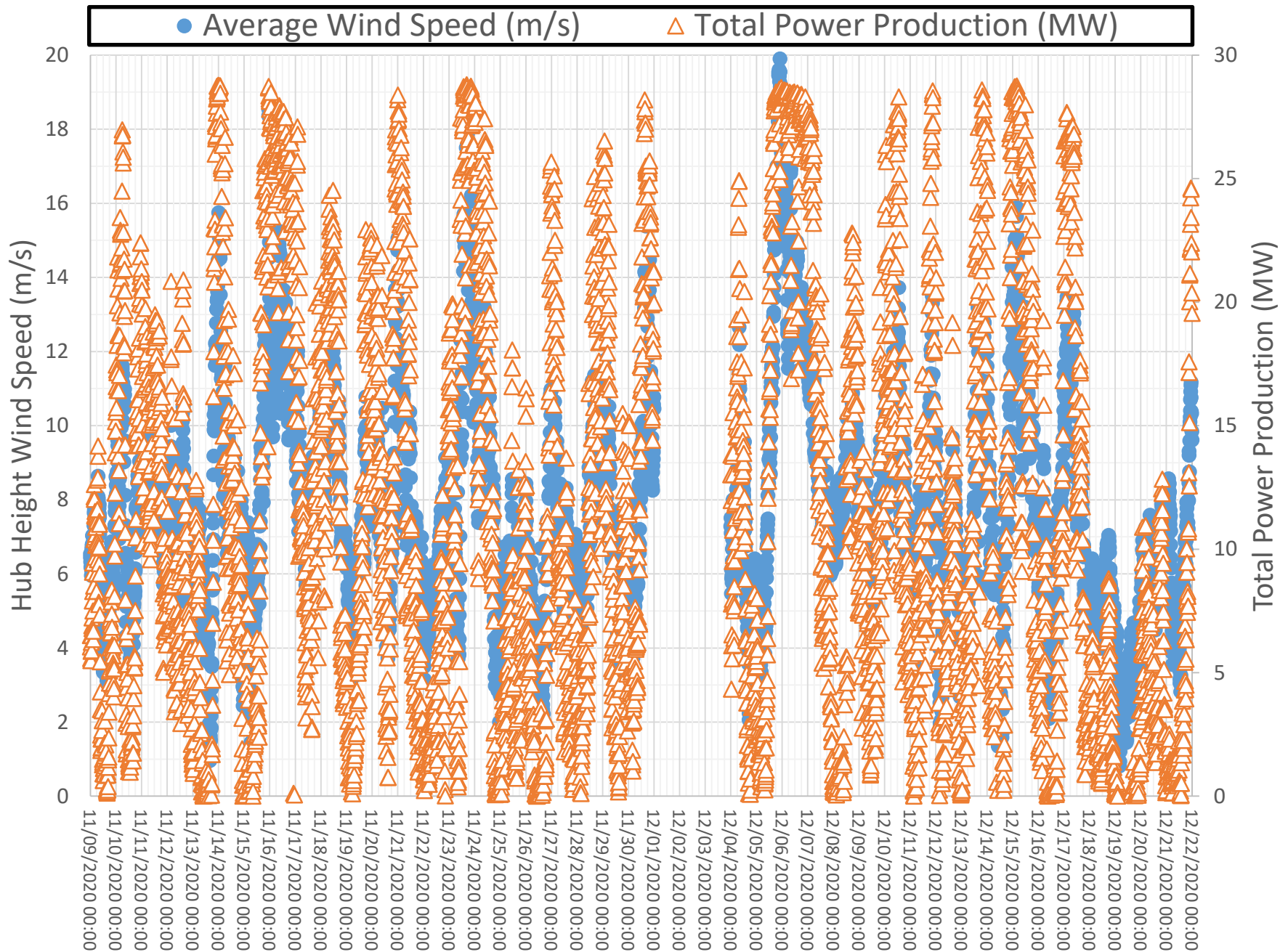


Figure A6: Total Project Power Generation and Average Hub Height Wind Data

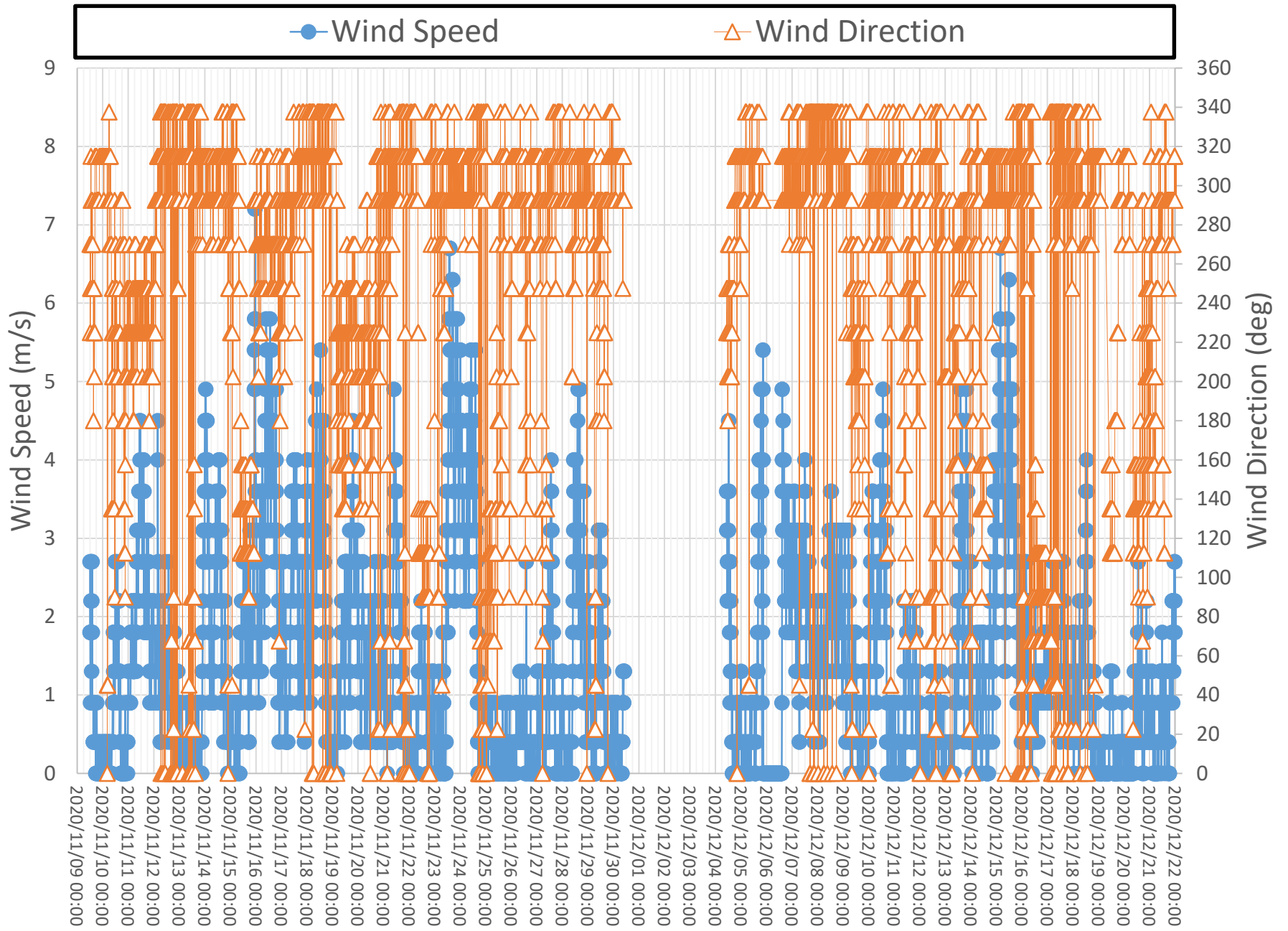


Figure A7: Location 5 Wind Speed and Direction (Acentech Davis Instruments Weather Station)



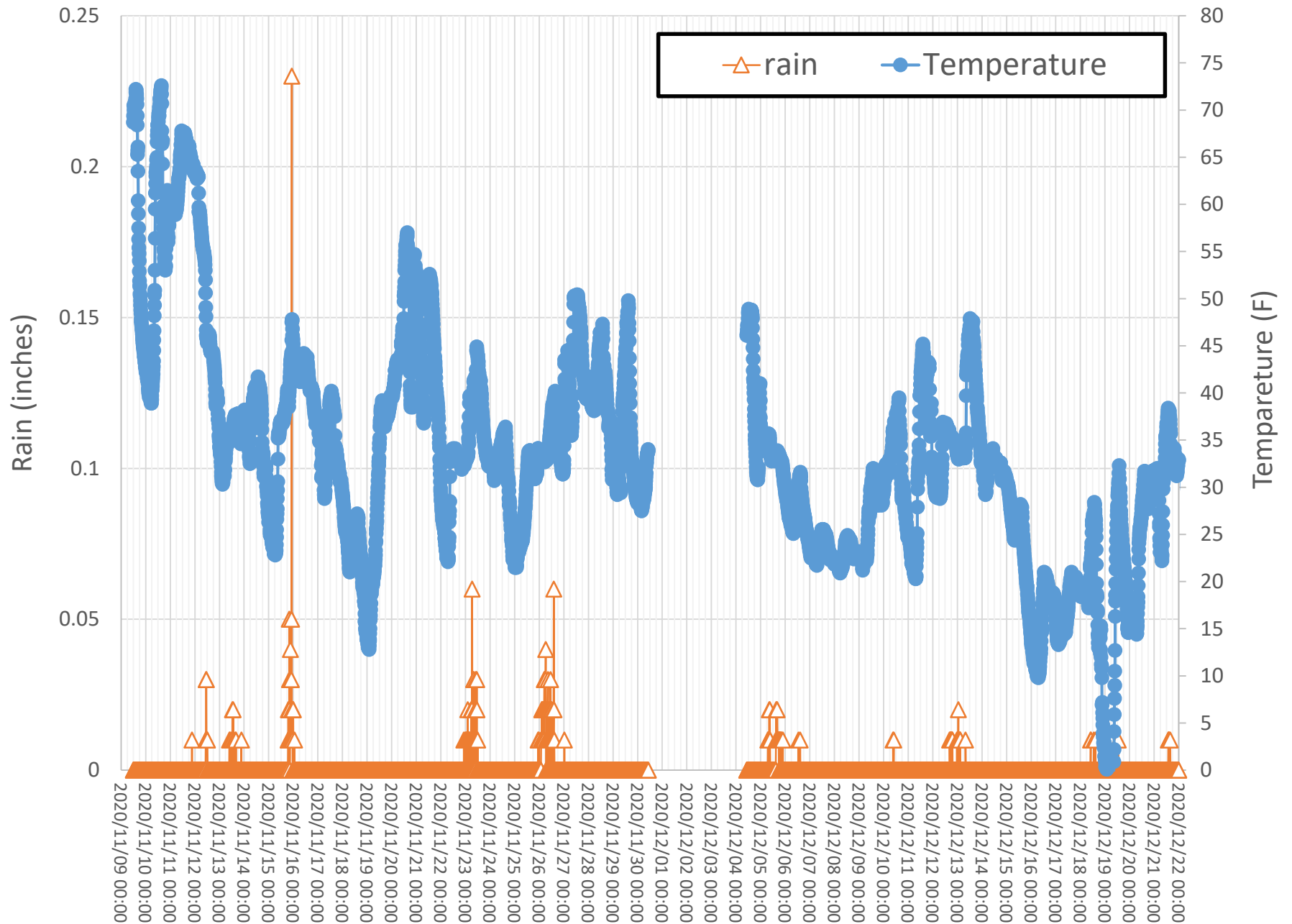


Figure A8: Location 5 Temperature and Rain (Acentech Davis Instruments Weather Station)



## Appendix B

### Hourly Sound, Local Wind, and Turbine Operational Data

APPENDIX B

Table B-1: Hourly Monitoring Data for Location 1

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/4/2020 12:00	12/4/2020 13:00	60	64	44	64	67	53	1.0		48.2	1737	8.3	259
12/4/2020 13:00	12/4/2020 14:00	60	64	42	63	67	52	0.5		48.2	967	6.6	252
12/4/2020 14:00	12/4/2020 15:00	61	64	42	65	68	53	0.3		48.7	499	5.3	246
12/4/2020 15:00	12/4/2020 16:00	61	65	43	65	68	56	0.0		47.9	192	4.2	234
12/4/2020 16:00	12/4/2020 17:00	61	65	42	64	67	49	0.0		41.5	0	2.6	248
12/4/2020 17:00	12/4/2020 18:00	60	65	42	63	67	48	0.0		37.6	-11	2.3	304
12/4/2020 18:00	12/4/2020 19:00	59	64	41	61	66	48	0.0		34.1	20	2.8	234
12/4/2020 19:00	12/4/2020 20:00	57	62	38	59	64	48	0.0		31.6	342	4.4	224
12/4/2020 20:00	12/4/2020 21:00	56	61	40	58	63	48	0.0		30.8	434	5.4	245
12/4/2020 21:00	12/4/2020 22:00	54	58	36	56	60	48	0.0		30.8	367	5.1	244
12/4/2020 22:00	12/4/2020 23:00	52	55	36	55	58	49	0.0		33.7	523	5.5	238
12/4/2020 23:00	12/5/2020 0:00	50	52	34	54	57	45	0.0		36.7	409	5.3	251
12/5/2020 0:00	12/5/2020 1:00	49	48	35	53	53	46	0.0		35.2	827	6.4	250
12/5/2020 1:00	12/5/2020 2:00	47	44	34	52	51	44	0.0		34.5	404	5.6	258
12/5/2020 2:00	12/5/2020 3:00	48	43	34	52	48	42	0.0		34.3	86	3.8	300
12/5/2020 3:00	12/5/2020 4:00	50	42	31	54	48	40	0.0		34.4	14	2.9	233
12/5/2020 4:00	12/5/2020 5:00	51	48	30	55	53	42	0.0		34.9	60	3.5	65
12/5/2020 5:00	12/5/2020 6:00	54	55	32	58	58	42	0.0	Trace	35	131	4.2	82
12/5/2020 6:00	12/5/2020 7:00	53	58	35	57	60	43	0.0	0.07	35.2	72	3.6	98
12/5/2020 7:00	12/5/2020 8:00	56	61	46	59	63	49	0.0	0.06	35.2	62	4.0	91
12/5/2020 8:00	12/5/2020 9:00	58	63	49	61	64	51	0.0	0.11	34.7	25	3.9	71
12/5/2020 9:00	12/5/2020 10:00	58	63	46	60	64	50	0.0	0.09	33.2	212	6.6	68
12/5/2020 10:00	12/5/2020 11:00	57	62	40	61	65	50	0.0	0.14	32.8	151	6.9	58
12/5/2020 11:00	12/5/2020 12:00	55	60	41	61	63	56	0.0	0.12	32.9	1081	8.3	44
12/5/2020 12:00	12/5/2020 13:00	51	55	38	59	61	52	0.0	0.19	32.8	1591	8.9	33
12/5/2020 13:00	12/5/2020 14:00	53	57	39	58	61	52	0.0	0.13	32.9	2376	10.1	19
12/5/2020 14:00	12/5/2020 15:00	52	56	44	58	60	53	0.0	0.11	33	2569	10.6	17
12/5/2020 15:00	12/5/2020 16:00	52	55	45	59	60	54	0.0	0.09	33.2	1863	9.1	120
12/5/2020 16:00	12/5/2020 17:00	55	58	44	60	62	54	0.1	0.11	33.5	2731	11.1	351
12/5/2020 17:00	12/5/2020 18:00	53	57	42	58	61	53	0.3	0.04	33.4	3088	13.1	345
12/5/2020 18:00	12/5/2020 19:00	51	55	41	57	59	53	0.5	0.03	33.1	3101	13.6	340
12/5/2020 19:00	12/5/2020 20:00	52	56	42	59	61	54	0.7	0.02	32.8	3054	13.3	336
12/5/2020 20:00	12/5/2020 21:00	54	56	44	62	63	56	0.8	0.02	32.6	3148	15.3	331
12/5/2020 21:00	12/5/2020 22:00	54	58	45	61	64	56	0.4	Trace	31.4	3152	15.9	330
12/5/2020 22:00	12/5/2020 23:00	53	56	46	61	63	56	0.0	Trace	30.5	3140	15.9	331
12/5/2020 23:00	12/6/2020 0:00	53	56	44	61	63	55	0.0	Trace	29.7	3159	15.6	327
12/6/2020 0:00	12/6/2020 1:00	50	54	43	58	61	54	0.0	Trace	29	3161	16.2	327
12/6/2020 1:00	12/6/2020 2:00	50	53	43	58	60	54	0.0	Trace	28.4	3146	15.0	324
12/6/2020 2:00	12/6/2020 3:00	51	54	43	58	61	53	0.0		27.4	3165	14.3	317
12/6/2020 3:00	12/6/2020 4:00	50	53	44	58	60	54	0.0		26.7	3150	14.0	321
12/6/2020 4:00	12/6/2020 5:00	48	51	42	57	60	52	0.0		26.5	2910	12.1	318
12/6/2020 5:00	12/6/2020 6:00	51	52	39	57	59	50	0.0		25.9	2305	9.9	315
12/6/2020 6:00	12/6/2020 7:00	48	50	37	54	56	49	0.0		25.4	2570	10.8	314
12/6/2020 7:00	12/6/2020 8:00	52	55	41	57	60	51	0.0		25.1	3023	12.3	311
12/6/2020 8:00	12/6/2020 9:00	55	60	41	59	62	49	0.0		25.2	292	12.7	312
12/6/2020 9:00	12/6/2020 10:00	58	63	41	66	69	53	0.0		25.9	1687	10.8	314
12/6/2020 10:00	12/6/2020 11:00	58	63	43	67	69	54	0.0		26.2	2861	11.2	310
12/6/2020 11:00	12/6/2020 12:00	58	62	42	61	65	54	0.0		27.3	2934	11.9	307
12/6/2020 12:00	12/6/2020 13:00	58	63	45	61	65	53	0.0	0.01	29.3	2858	11.6	309
12/6/2020 13:00	12/6/2020 14:00	57	62	44	60	65	52	0.0		29.5	2872	11.6	306
12/6/2020 14:00	12/6/2020 15:00	58	63	44	61	65	52	0.0	0.01	31	2522	11.2	309
12/6/2020 15:00	12/6/2020 16:00	58	63	42	61	65	49	0.0		29.2	893	10.9	310
12/6/2020 16:00	12/6/2020 17:00	58	63	41	60	65	50	0.0		28	2723	11.0	302
12/6/2020 17:00	12/6/2020 18:00	56	61	42	59	64	50	0.0		27.3	2898	11.4	302
12/6/2020 18:00	12/6/2020 19:00	56	61	41	60	63	50	0.0		26.8	2855	11.3	305
12/6/2020 19:00	12/6/2020 20:00	55	60	40	59	63	50	0.0		25.9	2746	11.1	308
12/6/2020 20:00	12/6/2020 21:00	56	60	39	59	63	50	0.0		25.3	2721	10.8	310
12/6/2020 21:00	12/6/2020 22:00	56	60	38	60	63	49	0.0		24.5	2695	11.0	313
12/6/2020 22:00	12/6/2020 23:00	53	56	38	58	60	48	0.0		24.1	2615	10.5	304
12/6/2020 23:00	12/7/2020 0:00	51	50	37	57	54	46	0.0		23.3	2589	10.7	300
12/7/2020 0:00	12/7/2020 1:00	48	45	36	54	52	45	0.1		22.5	2107	9.6	300
12/7/2020 1:00	12/7/2020 2:00	52	47	34	58	54	45	0.1		22.6	1300	8.1	300
12/7/2020 2:00	12/7/2020 3:00	49	45	36	54	52	46	0.1		22.6	2419	10.0	303
12/7/2020 3:00	12/7/2020 4:00	52	50	35	56	55	46	0.1		22.7	1610	8.4	307
12/7/2020 4:00	12/7/2020 5:00	54	56	35	58	59	47	0.1		22.6	1347	8.2	313
12/7/2020 5:00	12/7/2020 6:00	57	62	38	60	64	48	0.1		21.9	1679	8.9	318
12/7/2020 6:00	12/7/2020 7:00	58	63	40	62	65	50	0.1		21.7	1080	7.8	315
12/7/2020 7:00	12/7/2020 8:00	58	63	40	61	65	49	0.1		22.1	995	7.6	320
12/7/2020 8:00	12/7/2020 9:00	60	64	41	63	67	50	0.1		22.9	1117	7.8	329
12/7/2020 9:00	12/7/2020 10:00	59	63	38	63	66	48	0.1		24.2	949	7.5	331

APPENDIX B

Table B-1: Hourly Monitoring Data for Location 1

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/7/2020 10:00	12/7/2020 11:00	59	64	39	64	67	49	0.1		24.7	919	7.5	316
12/7/2020 11:00	12/7/2020 12:00	58	63	40	62	66	49	0.1		25.2	836	7.3	321
12/7/2020 12:00	12/7/2020 13:00	59	63	38	64	66	48	0.1		25.4	866	7.4	328
12/7/2020 13:00	12/7/2020 14:00	58	63	39	62	65	47	0.0		25.2	529	6.5	319
12/7/2020 14:00	12/7/2020 15:00	58	63	38	62	65	47	0.1		25	427	6.2	311
12/7/2020 15:00	12/7/2020 16:00	59	63	40	62	66	48	0.1		24.8	746	7.0	332
12/7/2020 16:00	12/7/2020 17:00	59	63	38	62	66	47	0.1		24.1	443	6.4	347
12/7/2020 17:00	12/7/2020 18:00	59	63	38	62	65	48	0.1		23.5	928	7.6	347
12/7/2020 18:00	12/7/2020 19:00	58	62	36	61	65	46	0.0		22.9	583	6.9	349
12/7/2020 19:00	12/7/2020 20:00	55	60	29	58	62	43	0.0		22.3	261	5.7	346
12/7/2020 20:00	12/7/2020 21:00	54	59	30	57	61	44	0.0		22.4	517	6.6	350
12/7/2020 21:00	12/7/2020 22:00	54	57	27	58	60	42	0.0		22.4	159	5.1	178
12/7/2020 22:00	12/7/2020 23:00	50	51	29	53	54	41	0.0		22.3	133	5.2	340
12/7/2020 23:00	12/8/2020 0:00	51	50	29	54	54	40	0.0		21.9	132	5.8	343
12/8/2020 0:00	12/8/2020 1:00	48	40	29	52	47	40	0.0		21.8	124	5.7	341
12/8/2020 1:00	12/8/2020 2:00	47	38	28	54	48	40	0.0		21.8	132	5.9	347
12/8/2020 2:00	12/8/2020 3:00	50	44	28	54	50	40	0.0		22	129	5.9	347
12/8/2020 3:00	12/8/2020 4:00	49	44	31	54	49	39	0.0		21.6	38	6.8	350
12/8/2020 4:00	12/8/2020 5:00	55	58	32	58	61	40	0.1		21	-13	7.5	351
12/8/2020 5:00	12/8/2020 6:00	58	62	34	61	65	45	0.0		20.9	196	7.3	349
12/8/2020 6:00	12/8/2020 7:00	59	63	36	63	66	47	0.0		21.1	187	7.2	352
12/8/2020 7:00	12/8/2020 8:00	60	64	35	63	67	47	0.0		21.4	-14	6.8	353
12/8/2020 8:00	12/8/2020 9:00	60	64	37	65	68	47	0.0		21.8	12	6.1	353
12/8/2020 9:00	12/8/2020 10:00	62	63	35	65	66	46	0.0		22.4	152	5.9	350
12/8/2020 10:00	12/8/2020 11:00	59	64	37	63	67	47	0.1		23.3	158	7.2	345
12/8/2020 11:00	12/8/2020 12:00	59	64	38	63	66	47	0.2		24.2	154	7.2	346
12/8/2020 12:00	12/8/2020 13:00	59	64	41	63	67	51	0.4		24.6	750	8.4	340
12/8/2020 13:00	12/8/2020 14:00	59	63	41	62	66	50	0.3		24.7	679	8.1	341
12/8/2020 14:00	12/8/2020 15:00	59	63	40	63	66	50	0.2		24.3	1229	8.4	345
12/8/2020 15:00	12/8/2020 16:00	59	63	39	63	66	50	0.3		24.1	854	7.6	348
12/8/2020 16:00	12/8/2020 17:00	59	64	40	62	66	50	0.1		22.9	1082	8.1	346
12/8/2020 17:00	12/8/2020 18:00	58	63	39	61	65	50	0.2		23	1735	9.3	338
12/8/2020 18:00	12/8/2020 19:00	56	61	38	59	63	49	0.4		22.4	1876	9.7	337
12/8/2020 19:00	12/8/2020 20:00	54	59	37	58	61	48	0.2		22.5	1134	8.0	326
12/8/2020 20:00	12/8/2020 21:00	53	57	35	57	60	47	0.2		22.7	1263	8.3	325
12/8/2020 21:00	12/8/2020 22:00	53	57	35	58	60	47	0.2		22.8	1280	8.2	330
12/8/2020 22:00	12/8/2020 23:00	49	49	33	54	54	46	0.2		22.9	1264	8.2	325
12/8/2020 23:00	12/9/2020 0:00	49	49	30	52	52	43	0.0		22.7	402	6.2	331
12/9/2020 0:00	12/9/2020 1:00	45	37	31	49	48	42	0.0		22.9	421	6.3	323
12/9/2020 1:00	12/9/2020 2:00	48	42	32	53	50	43	0.1		22.6	559	6.6	310
12/9/2020 2:00	12/9/2020 3:00	51	44	31	57	51	42	0.0		21.9	339	6.0	305
12/9/2020 3:00	12/9/2020 4:00	50	44	32	55	50	43	0.0		21.2	543	6.5	301
12/9/2020 4:00	12/9/2020 5:00	53	54	32	57	58	43	0.0		21.7	506	6.5	299
12/9/2020 5:00	12/9/2020 6:00	57	62	35	61	64	46	0.0		22	360	5.9	292
12/9/2020 6:00	12/9/2020 7:00	58	63	40	62	65	47	0.0		22.3	611	6.9	286
12/9/2020 7:00	12/9/2020 8:00	59	64	40	63	67	49	0.0		22.2	755	6.9	276
12/9/2020 8:00	12/9/2020 9:00	58	63	39	62	66	49	0.0		23.3	296	7.8	284
12/9/2020 9:00	12/9/2020 10:00	58	63	37	63	66	49	0.1	Trace	26.5	316	6.6	251
12/9/2020 10:00	12/9/2020 11:00	59	63	38	62	66	49	0.0	Trace	27	154	4.5	240
12/9/2020 11:00	12/9/2020 12:00	59	63	37	62	66	47	0.0	Trace	29.6	100	4.4	257
12/9/2020 12:00	12/9/2020 13:00	59	63	38	63	66	49	0.1	Trace	30.2	366	5.3	249
12/9/2020 13:00	12/9/2020 14:00	58	63	37	61	65	48	0.0	Trace	30.8	585	6.1	248
12/9/2020 14:00	12/9/2020 15:00	59	63	37	62	66	48	0.0	0.01	31.4	384	5.4	249
12/9/2020 15:00	12/9/2020 16:00	59	64	37	62	66	47	0.0	Trace	30.8	163	5.1	251
12/9/2020 16:00	12/9/2020 17:00	59	63	38	61	65	47	0.0	Trace	29.4	295	5.2	252
12/9/2020 17:00	12/9/2020 18:00	58	63	39	61	65	48	0.0	Trace	28.4	864	6.9	255
12/9/2020 18:00	12/9/2020 19:00	56	61	36	59	63	46	0.0		28.1	721	6.5	260
12/9/2020 19:00	12/9/2020 20:00	55	59	35	58	61	46	0.0		30.1	1504	8.6	269
12/9/2020 20:00	12/9/2020 21:00	52	56	31	55	58	43	0.0		30	545	6.1	266
12/9/2020 21:00	12/9/2020 22:00	50	52	31	52	54	42	0.0		28.1	511	5.7	267
12/9/2020 22:00	12/9/2020 23:00	50	51	31	54	54	42	0.0		28.2	513	5.7	263
12/9/2020 23:00	12/10/2020 0:00	50	49	32	54	53	43	0.0		29	514	5.8	268
12/10/2020 0:00	12/10/2020 1:00	47	42	34	52	50	44	0.0		29.7	1620	8.5	278
12/10/2020 1:00	12/10/2020 2:00	48	39	33	52	48	43	0.0		30.8	1671	8.4	281
12/10/2020 2:00	12/10/2020 3:00	51	45	32	55	51	43	0.0		32.2	783	6.4	282
12/10/2020 3:00	12/10/2020 4:00	52	48	33	56	53	43	0.0		32	1086	7.3	297
12/10/2020 4:00	12/10/2020 5:00	56	59	33	59	61	43	0.0		31.4	977	7.4	298
12/10/2020 5:00	12/10/2020 6:00	58	62	37	61	64	45	0.0		32.1	1224	7.9	300
12/10/2020 6:00	12/10/2020 7:00	59	64	40	63	65	47	0.1		33	1038	7.6	312
12/10/2020 7:00	12/10/2020 8:00	60	64	43	62	66	51	0.2		33.1	1643	8.6	312

Hourly Monitoring Data for Location 1 (Page 2 of 6)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-1: Hourly Monitoring Data for Location 1

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/10/2020 8:00	12/10/2020 9:00	59	64	41	62	66	50	0.4		33.8	1545	8.8	318
12/10/2020 9:00	12/10/2020 10:00	60	64	41	63	66	48	0.3	0.02	35.6	593	7.5	310
12/10/2020 10:00	12/10/2020 11:00	60	64	42	63	67	50	0.3		35.9	1626	8.7	306
12/10/2020 11:00	12/10/2020 12:00	60	64	44	64	67	52	0.5		36.2	2425	10.3	317
12/10/2020 12:00	12/10/2020 13:00	60	64	43	64	67	53	0.6		36.9	2463	10.7	319
12/10/2020 13:00	12/10/2020 14:00	59	64	43	64	67	52	0.7		37.4	2531	10.6	322
12/10/2020 14:00	12/10/2020 15:00	59	64	42	63	66	50	0.5		37.4	2021	9.7	318
12/10/2020 15:00	12/10/2020 16:00	60	65	43	64	67	49	0.2		35.9	366	7.1	309
12/10/2020 16:00	12/10/2020 17:00	60	65	40	63	67	48	0.1		31.9	511	6.1	307
12/10/2020 17:00	12/10/2020 18:00	59	64	42	61	66	48	0.0		28.7	632	6.7	294
12/10/2020 18:00	12/10/2020 19:00	58	63	38	61	65	46	0.0		28.6	758	7.0	304
12/10/2020 19:00	12/10/2020 20:00	55	61	36	58	62	45	0.0		28.9	542	6.1	303
12/10/2020 20:00	12/10/2020 21:00	54	58	34	57	60	44	0.0		27.4	335	5.2	304
12/10/2020 21:00	12/10/2020 22:00	54	58	34	58	60	44	0.0		26.7	428	5.8	308
12/10/2020 22:00	12/10/2020 23:00	52	52	34	55	56	43	0.0		25.5	383	5.8	311
12/10/2020 23:00	12/11/2020 0:00	52	52	35	55	55	44	0.0		24.7	445	6.1	298
12/11/2020 0:00	12/11/2020 1:00	48	43	31	53	50	42	0.0		24.4	284	5.3	288
12/11/2020 1:00	12/11/2020 2:00	51	47	34	55	52	42	0.0		23.8	154	4.6	280
12/11/2020 2:00	12/11/2020 3:00	51	46	31	55	52	42	0.0		22.6	111	4.4	267
12/11/2020 3:00	12/11/2020 4:00	52	42	31	56	49	41	0.0		21.8	-6	3.1	261
12/11/2020 4:00	12/11/2020 5:00	55	58	35	59	61	45	0.0		21.5	250	4.9	254
12/11/2020 5:00	12/11/2020 6:00	57	61	35	60	64	45	0.0		20.9	80	3.8	249
12/11/2020 6:00	12/11/2020 7:00	59	64	40	62	66	49	0.0		20.5	114	4.0	224
12/11/2020 7:00	12/11/2020 8:00	59	64	42	62	66	50	0.0		20.3	126	4.0	239
12/11/2020 8:00	12/11/2020 9:00	59	64	41	62	66	49	0.0		22.3	-6	4.4	240
12/11/2020 9:00	12/11/2020 10:00	60	64	41	64	67	52	0.0		29.8	28	4.3	242
12/11/2020 10:00	12/11/2020 11:00	61	65	42	64	68	52	0.0		32.6	113	4.1	243
12/11/2020 11:00	12/11/2020 12:00	60	64	44	63	67	54	0.1		39.7	1080	6.8	242
12/11/2020 12:00	12/11/2020 13:00	60	65	42	64	67	52	0.1		41.6	938	6.6	241
12/11/2020 13:00	12/11/2020 14:00	61	65	42	64	68	50	0.0		43.2	412	5.3	241
12/11/2020 14:00	12/11/2020 15:00	61	65	42	63	67	51	0.0		44.2	995	6.8	235
12/11/2020 15:00	12/11/2020 16:00	62	66	44	64	68	52	0.0		40.2	440	8.5	243
12/11/2020 16:00	12/11/2020 17:00	61	66	47	64	68	56	0.0		37.5	1519	7.7	238
12/11/2020 17:00	12/11/2020 18:00	61	65	48	64	67	56	0.0		37.3	2883	10.9	240
12/11/2020 18:00	12/11/2020 19:00	60	64	44	63	66	55	0.0		42	3192	13.2	242
12/11/2020 19:00	12/11/2020 20:00	57	62	40	60	64	53	0.1		43	3200	13.8	249
12/11/2020 20:00	12/11/2020 21:00	55	60	38	58	61	51	0.1		38.9	3198	13.2	252
12/11/2020 21:00	12/11/2020 22:00	54	58	36	56	60	49	0.0		35.4	2567	10.3	252
12/11/2020 22:00	12/11/2020 23:00	52	54	33	56	56	48	0.0		33.2	1114	6.9	243
12/11/2020 23:00	12/12/2020 0:00	53	54	33	56	58	47	0.0		31.7	716	5.8	248
12/12/2020 0:00	12/12/2020 1:00	49	41	33	53	50	45	0.0		31.6	791	6.2	251
12/12/2020 1:00	12/12/2020 2:00	47	42	33	51	48	42	0.0		29.8	786	7.4	267
12/12/2020 2:00	12/12/2020 3:00	47	40	32	51	49	41	0.0		29.1	248	4.7	268
12/12/2020 3:00	12/12/2020 4:00	48	41	31	50	46	40	0.0		28.9	18	3.1	293
12/12/2020 4:00	12/12/2020 5:00	52	51	34	55	54	40	0.0		29	-8	1.5	126
12/12/2020 5:00	12/12/2020 6:00	53	55	33	57	58	41	0.0		29.2	-9	2.4	143
12/12/2020 6:00	12/12/2020 7:00	53	58	35	56	59	43	0.0		28.8	45	3.6	112
12/12/2020 7:00	12/12/2020 8:00	56	61	35	59	63	44	0.0		28.9	156	4.1	103
12/12/2020 8:00	12/12/2020 9:00	58	63	39	62	65	50	0.0		29.8	55	5.5	101
12/12/2020 9:00	12/12/2020 10:00	59	63	40	61	65	46	0.0		33.1	122	5.1	110
12/12/2020 10:00	12/12/2020 11:00	60	64	41	62	66	47	0.0		35.4	245	5.1	87
12/12/2020 11:00	12/12/2020 12:00	60	65	42	62	66	47	0.0		36.4	320	5.0	107
12/12/2020 12:00	12/12/2020 13:00	59	64	41	62	66	46	0.0		36.4	230	4.8	100
12/12/2020 13:00	12/12/2020 14:00	59	64	39	62	66	46	0.0	Trace	36.3	343	5.3	101
12/12/2020 14:00	12/12/2020 15:00	59	64	42	61	65	46	0.0		35.2	587	6.3	97
12/12/2020 15:00	12/12/2020 16:00	59	64	41	61	65	46	0.0		35.5	636	6.6	94
12/12/2020 16:00	12/12/2020 17:00	58	63	39	60	64	47	0.0	0.01	35	498	6.2	87
12/12/2020 17:00	12/12/2020 18:00	56	62	38	58	63	44	0.0	0.02	34.9	469	6.1	84
12/12/2020 18:00	12/12/2020 19:00	56	62	38	58	63	44	0.0	0.02	35.1	390	5.8	81
12/12/2020 19:00	12/12/2020 20:00	54	59	35	56	61	43	0.0	0.01	35	332	5.5	70
12/12/2020 20:00	12/12/2020 21:00	53	58	31	56	60	41	0.0		34.7	310	5.4	75
12/12/2020 21:00	12/12/2020 22:00	53	58	29	55	59	38	0.0		34.6	58	4.1	78
12/12/2020 22:00	12/12/2020 23:00	51	55	28	55	57	37	0.0		34.3	-8	2.2	45
12/12/2020 23:00	12/13/2020 0:00	51	52	29	53	54	36	0.0	0.01	33.4	-9	2.2	66
12/13/2020 0:00	12/13/2020 1:00	47	45	30	49	48	38	0.0	0.04	33	-9	2.4	112
12/13/2020 1:00	12/13/2020 2:00	47	43	33	52	51	45	0.0	0.05	33	18	3.2	201
12/13/2020 2:00	12/13/2020 3:00	45	41	36	53	55	49	0.0	0.02	33.1	221	4.8	223
12/13/2020 3:00	12/13/2020 4:00	47	40	33	55	55	47	0.0		33.1	100	3.7	229
12/13/2020 4:00	12/13/2020 5:00	48	43	31	52	53	45	0.0		33.2	149	4.5	222
12/13/2020 5:00	12/13/2020 6:00	47	44	31	50	49	44	0.0		33.1	31	3.5	236

APPENDIX B

Table B-1: Hourly Monitoring Data for Location 1

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/13/2020 6:00	12/13/2020 7:00	51	52	33	55	56	48	0.0		33.1	381	5.4	226
12/13/2020 7:00	12/13/2020 8:00	53	58	35	56	60	48	0.0	0.01	33.1	647	6.0	237
12/13/2020 8:00	12/13/2020 9:00	56	61	37	59	63	48	0.0		34.8	658	5.9	242
12/13/2020 9:00	12/13/2020 10:00	58	64	39	61	65	49	0.0		42.7	669	5.8	245
12/13/2020 10:00	12/13/2020 11:00	59	64	40	62	66	48	0.0		43.9	82	3.5	249
12/13/2020 11:00	12/13/2020 12:00	60	64	39	62	66	52	0.0		45.4	706	6.1	245
12/13/2020 12:00	12/13/2020 13:00	59	64	41	62	66	51	0.2		46.4	887	6.4	268
12/13/2020 13:00	12/13/2020 14:00	60	64	43	62	66	50	0.4		46.3	1596	8.3	281
12/13/2020 14:00	12/13/2020 15:00	60	64	43	62	66	50	0.3		46.8	1956	9.1	280
12/13/2020 15:00	12/13/2020 16:00	59	64	43	62	66	51	0.5		45.2	819	11.4	280
12/13/2020 16:00	12/13/2020 17:00	59	64	40	61	66	48	0.1		42.8	1224	7.7	282
12/13/2020 17:00	12/13/2020 18:00	58	63	40	61	65	49	0.4		39.9	1864	9.0	280
12/13/2020 18:00	12/13/2020 19:00	57	62	39	60	64	48	0.2		39.2	1919	8.9	278
12/13/2020 19:00	12/13/2020 20:00	56	61	39	60	63	49	0.2		37.6	3069	11.5	276
12/13/2020 20:00	12/13/2020 21:00	55	60	37	59	62	47	0.6		36	2764	10.6	283
12/13/2020 21:00	12/13/2020 22:00	53	57	35	55	58	45	0.1		34.8	1757	8.8	292
12/13/2020 22:00	12/13/2020 23:00	51	52	35	55	55	44	0.2		32.8	1248	7.9	296
12/13/2020 23:00	12/14/2020 0:00	49	47	35	53	52	45	0.3		32.5	1330	8.1	303
12/14/2020 0:00	12/14/2020 1:00	50	45	35	54	51	45	0.3		32.8	1274	7.9	309
12/14/2020 1:00	12/14/2020 2:00	51	46	34	54	52	44	0.1		30.8	877	7.1	313
12/14/2020 2:00	12/14/2020 3:00	49	43	34	57	50	43	0.1		30.5	602	6.3	313
12/14/2020 3:00	12/14/2020 4:00	52	49	33	56	54	42	0.0		29.2	203	4.9	309
12/14/2020 4:00	12/14/2020 5:00	56	59	33	60	62	42	0.0		29.6	184	4.8	315
12/14/2020 5:00	12/14/2020 6:00	57	62	35	61	64	45	0.0		31	394	5.9	332
12/14/2020 6:00	12/14/2020 7:00	59	63	37	61	66	46	0.1		32.1	119	4.5	336
12/14/2020 7:00	12/14/2020 8:00	59	64	39	62	66	47	0.1		32.1	210	5.0	320
12/14/2020 8:00	12/14/2020 9:00	59	64	39	62	66	48	0.1		32.5	339	5.4	273
12/14/2020 9:00	12/14/2020 10:00	60	64	34	65	67	45	0.0		33.2	-7	2.1	192
12/14/2020 10:00	12/14/2020 11:00	59	64	35	63	67	45	0.0	Trace	33.2	-11	2.1	225
12/14/2020 11:00	12/14/2020 12:00	58	63	35	62	65	44	0.0	Trace	32.9	-12	2.2	189
12/14/2020 12:00	12/14/2020 13:00	59	63	36	64	66	44	0.0	0.02	32.5	-11	2.4	191
12/14/2020 13:00	12/14/2020 14:00	59	64	36	62	66	45	0.0	0.01	32.5	-11	1.7	243
12/14/2020 14:00	12/14/2020 15:00	59	64	36	62	66	44	0.0	Trace	32.4	18	3.0	310
12/14/2020 15:00	12/14/2020 16:00	60	65	41	63	67	47	0.0	Trace	32.3	39	4.0	280
12/14/2020 16:00	12/14/2020 17:00	59	64	40	62	66	47	0.0		32	240	5.5	291
12/14/2020 17:00	12/14/2020 18:00	58	63	39	61	65	47	0.0		32.3	556	6.4	314
12/14/2020 18:00	12/14/2020 19:00	57	62	37	60	64	46	0.1		31.3	644	6.7	307
12/14/2020 19:00	12/14/2020 20:00	56	60	35	58	62	45	0.1		30.7	804	7.1	303
12/14/2020 20:00	12/14/2020 21:00	53	57	35	58	59	45	0.1		30.7	1245	8.0	305
12/14/2020 21:00	12/14/2020 22:00	53	57	35	57	59	47	0.2		30.7	1565	8.6	307
12/14/2020 22:00	12/14/2020 23:00	52	53	35	57	58	46	0.2	Trace	31.1	1549	8.6	302
12/14/2020 23:00	12/15/2020 0:00	50	50	37	55	56	49	0.6		30.7	2700	11.2	304
12/15/2020 0:00	12/15/2020 1:00	50	49	39	57	57	50	0.7		30.4	2773	11.5	310
12/15/2020 1:00	12/15/2020 2:00	52	53	39	58	60	51	0.7		29.7	3001	12.6	312
12/15/2020 2:00	12/15/2020 3:00	52	52	41	58	60	52	0.9		28.9	3055	12.8	312
12/15/2020 3:00	12/15/2020 4:00	51	52	41	58	60	51	1.0		27.7	3120	13.2	299
12/15/2020 4:00	12/15/2020 5:00	57	59	42	62	64	53	1.0		26.7	2977	12.4	305
12/15/2020 5:00	12/15/2020 6:00	57	61	40	61	64	51	0.7		25.9	2682	11.0	306
12/15/2020 6:00	12/15/2020 7:00	58	63	44	62	66	53	0.8		24.9	2848	11.4	312
12/15/2020 7:00	12/15/2020 8:00	60	64	44	64	67	54	0.8		24.4	2836	11.5	310
12/15/2020 8:00	12/15/2020 9:00	60	65	39	64	67	48	0.3		24.9	457	8.6	321
12/15/2020 9:00	12/15/2020 10:00	60	64	40	65	67	49	0.4		25.6	1182	10.4	315
12/15/2020 10:00	12/15/2020 11:00	60	64	44	66	68	53	0.7		25.4	2357	10.4	318
12/15/2020 11:00	12/15/2020 12:00	60	64	44	64	68	54	1.0		25.8	2635	11.1	311
12/15/2020 12:00	12/15/2020 13:00	60	64	42	65	67	52	0.8		26.5	2170	9.9	318
12/15/2020 13:00	12/15/2020 14:00	59	64	42	63	67	53	0.8		27.6	2119	9.7	323
12/15/2020 14:00	12/15/2020 15:00	59	64	42	63	67	52	0.9		27.3	2509	10.6	318
12/15/2020 15:00	12/15/2020 16:00	59	63	39	62	66	49	0.5		24.8	640	8.7	317
12/15/2020 16:00	12/15/2020 17:00	59	63	40	62	66	50	0.3		23.1	1397	8.5	326
12/15/2020 17:00	12/15/2020 18:00	58	62	38	61	65	49	0.4		21.8	1246	8.1	323
12/15/2020 18:00	12/15/2020 19:00	56	61	35	60	63	47	0.3		20.4	1034	7.7	324
12/15/2020 19:00	12/15/2020 20:00	54	59	30	58	62	44	0.1		19.5	685	7.1	324
12/15/2020 20:00	12/15/2020 21:00	53	56	26	56	59	42	0.1		17.7	341	6.1	282
12/15/2020 21:00	12/15/2020 22:00	50	52	28	55	56	43	0.3		16.4	601	6.9	351
12/15/2020 22:00	12/15/2020 23:00	49	49	28	55	54	42	0.3		15.2	439	6.5	344
12/15/2020 23:00	12/16/2020 0:00	49	49	27	54	55	41	0.2		13.8	337	6.3	350
12/16/2020 0:00	12/16/2020 1:00	47	39	26	52	48	41	0.1		13	229	5.6	349
12/16/2020 1:00	12/16/2020 2:00	48	42	26	53	50	40	0.1		12	194	5.5	337
12/16/2020 2:00	12/16/2020 3:00	50	45	27	55	52	39	0.0		11.3	78	5.1	336
12/16/2020 3:00	12/16/2020 4:00	49	42	27	54	50	40	0.0		11.1	107	5.1	317

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-1: Hourly Monitoring Data for Location 1

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/16/2020 4:00	12/16/2020 5:00	55	55	30	60	59	44	0.2		10.5	587	6.7	320
12/16/2020 5:00	12/16/2020 6:00	56	61	31	61	63	44	0.1		9.9	243	5.5	324
12/16/2020 6:00	12/16/2020 7:00	58	63	34	62	65	46	0.1		9.8	199	4.9	315
12/16/2020 7:00	12/16/2020 8:00	58	63	35	63	66	47	0.1		10.1	438	6.3	319
12/16/2020 8:00	12/16/2020 9:00	58	63	33	63	65	45	0.0		10.7	-21	3.2	323
12/16/2020 9:00	12/16/2020 10:00	58	63	33	63	66	44	0.0		12.3	-22	2.7	308
12/16/2020 10:00	12/16/2020 11:00	58	63	33	63	66	45	0.0		14.6	-22	3.0	310
12/16/2020 11:00	12/16/2020 12:00	58	63	33	63	66	46	0.0		17.6	-22	3.0	47
12/16/2020 12:00	12/16/2020 13:00	58	62	34	63	65	44	0.1		19.2	-20	3.7	84
12/16/2020 13:00	12/16/2020 14:00	57	62	32	62	65	44	0.0		20.2	-16	3.1	118
12/16/2020 14:00	12/16/2020 15:00	58	63	35	62	66	46	0.0		20.2	26	4.4	101
12/16/2020 15:00	12/16/2020 16:00	59	63	38	64	66	46	0.0		19.8	-9	4.1	114
12/16/2020 16:00	12/16/2020 17:00	58	63	37	61	65	46	0.0		19.2	-22	3.1	138
12/16/2020 17:00	12/16/2020 18:00	57	62	34	61	65	45	0.0		18.9	141	4.9	103
12/16/2020 18:00	12/16/2020 19:00	56	61	32	59	63	44	0.0		18.5	509	6.5	92
12/16/2020 19:00	12/16/2020 20:00	54	59	28	58	61	43	0.1		18.6	350	5.8	94
12/16/2020 20:00	12/16/2020 21:00	52	56	31	56	59	43	0.0		18.6	599	6.7	98
12/16/2020 21:00	12/16/2020 22:00	51	54	30	55	57	43	0.1		18.6	1068	7.7	100
12/16/2020 22:00	12/16/2020 23:00	50	50	31	54	55	43	0.2	Trace	18	1045	7.8	95
12/16/2020 23:00	12/17/2020 0:00	49	47	33	54	52	44	0.2	0.04	16.5	1518	8.7	94
12/17/2020 0:00	12/17/2020 1:00	43	46	35	51	51	46	0.2	0.09	14.5	1977	9.5	84
12/17/2020 1:00	12/17/2020 2:00	50	43	35	54	51	46	0.1	0.1	13.5	2158	9.8	76
12/17/2020 2:00	12/17/2020 3:00	50	47	38	54	53	48	0.1	0.19	13.3	2847	11.4	72
12/17/2020 3:00	12/17/2020 4:00	49	48	39	54	54	48	0.2	0.1	13.5	2651	10.8	66
12/17/2020 4:00	12/17/2020 5:00	49	51	40	55	57	49	0.4	0.11	13.8	2855	11.6	54
12/17/2020 5:00	12/17/2020 6:00	52	52	44	57	56	50	0.5	0.05	14.1	2967	11.8	61
12/17/2020 6:00	12/17/2020 7:00	50	52	41	55	57	49	0.6	Trace	14.3	2758	11.2	57
12/17/2020 7:00	12/17/2020 8:00	49	51	43	56	58	51	0.7	0.04	14.3	3021	12.3	59
12/17/2020 8:00	12/17/2020 9:00	49	52	42	56	58	50	0.7	0.04	14.7	3039	12.4	56
12/17/2020 9:00	12/17/2020 10:00	45	48	37	53	55	47	0.6	0.08	14.5	2651	10.8	51
12/17/2020 10:00	12/17/2020 11:00	43	43	34	52	53	45	0.1	0.07	15.4	1502	8.4	49
12/17/2020 11:00	12/17/2020 12:00	40	42	32	50	51	45	0.1	0.08	16.3	893	7.4	45
12/17/2020 12:00	12/17/2020 13:00	37	38	30	50	50	43	0.0	0.02	17.3	484	6.5	32
12/17/2020 13:00	12/17/2020 14:00	43	44	32	51	52	45	0.1	Trace	18.8	874	7.4	28
12/17/2020 14:00	12/17/2020 15:00	45	47	34	53	54	48	0.3	Trace	19.8	1312	8.3	21
12/17/2020 15:00	12/17/2020 16:00	48	52	34	56	60	49	0.2		20.3	1246	8.0	29
12/17/2020 16:00	12/17/2020 17:00	49	54	31	53	56	45	0.1		19.2	784	7.1	33
12/17/2020 17:00	12/17/2020 18:00	53	55	31	56	57	42	0.0		18.9	499	6.3	33
12/17/2020 18:00	12/17/2020 19:00	50	51	28	54	55	41	0.0		19.7	464	6.4	74
12/17/2020 19:00	12/17/2020 20:00	46	49	24	50	53	39	0.0		20.1	2	3.8	332
12/17/2020 20:00	12/17/2020 21:00	46	47	23	49	49	37	0.0		19.5	71	4.6	334
12/17/2020 21:00	12/17/2020 22:00	46	47	24	49	51	38	0.0		18.9	244	5.7	340
12/17/2020 22:00	12/17/2020 23:00	44	42	23	49	49	37	0.0		18.9	77	4.6	336
12/17/2020 23:00	12/18/2020 0:00	42	37	23	45	44	37	0.0		18.6	45	4.3	174
12/18/2020 0:00	12/18/2020 1:00	43	36	23	46	44	36	0.0		18.4	135	4.9	323
12/18/2020 1:00	12/18/2020 2:00	42	38	24	46	45	37	0.0		18.6	123	4.3	334
12/18/2020 2:00	12/18/2020 3:00	47	41	24	50	45	38	0.0		19.3	137	4.3	337
12/18/2020 3:00	12/18/2020 4:00	49	45	27	52	48	39	0.0		19.2	139	4.5	182
12/18/2020 4:00	12/18/2020 5:00	49	53	27	52	54	39	0.0		18.8	53	4.3	76
12/18/2020 5:00	12/18/2020 6:00	52	57	31	54	58	39	0.0		18.6	70	4.5	228
12/18/2020 6:00	12/18/2020 7:00	53	58	31	56	60	41	0.0		18.3	66	4.2	302
12/18/2020 7:00	12/18/2020 8:00	56	60	37	58	62	43	0.1		17.3	42	4.2	313
12/18/2020 8:00	12/18/2020 9:00	55	60	36	57	62	43	0.1		17.2	12	4.8	319
12/18/2020 9:00	12/18/2020 10:00	56	60	35	59	62	43	0.1	0.01	18.9	44	4.3	306
12/18/2020 10:00	12/18/2020 11:00	55	60	36	58	61	43	0.1	0.01	21.8	49	4.1	298
12/18/2020 11:00	12/18/2020 12:00	56	60	34	59	63	42	0.0		24.1	-11	3.6	293
12/18/2020 12:00	12/18/2020 13:00	56	61	34	58	62	42	0.1		26.5	67	4.5	301
12/18/2020 13:00	12/18/2020 14:00	57	61	34	59	62	43	0.3	0.01	26.9	150	5.2	322
12/18/2020 14:00	12/18/2020 15:00	57	61	38	60	63	44	0.2	0.01	26	176	5.3	324
12/18/2020 15:00	12/18/2020 16:00	58	62	39	60	64	44	0.1		18.3	95	5.2	322
12/18/2020 16:00	12/18/2020 17:00	58	63	40	60	64	46	0.1		15.4	429	6.2	319
12/18/2020 17:00	12/18/2020 18:00	58	63	36	59	64	43	0.2		13	440	5.8	320
12/18/2020 18:00	12/18/2020 19:00	57	62	35	58	63	43	0.1		14	302	5.1	309
12/18/2020 19:00	12/18/2020 20:00	54	59	33	56	60	42	0.0		12.4	275	5.6	326
12/18/2020 20:00	12/18/2020 21:00	54	59	29	55	60	39	0.0		9.8	114	4.7	315
12/18/2020 21:00	12/18/2020 22:00	52	57	29	53	58	38	0.0		4.8	126	4.5	304
12/18/2020 22:00	12/18/2020 23:00	50	53	27	52	55	37	0.0		2.4	140	4.8	296
12/18/2020 23:00	12/19/2020 0:00	51	54	28	53	55	38	0.0		1.4	61	4.4	288
12/19/2020 0:00	12/19/2020 1:00	46	42	28	49	46	38	0.0		0.3	84	4.4	297
12/19/2020 1:00	12/19/2020 2:00	47	43	29	50	48	38	0.0		-0.6	31	4.0	289

APPENDIX B

**Table B-1: Hourly Monitoring Data for Location 1**

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/19/2020 2:00	12/19/2020 3:00	48	43	28	51	48	38	0.0		-1.5	-15	3.7	315
12/19/2020 3:00	12/19/2020 4:00	43	36	30	46	44	37	0.0		-2.3	-15	3.3	160
12/19/2020 4:00	12/19/2020 5:00	50	51	31	52	53	37	0.0		-3.3	-21	2.7	68
12/19/2020 5:00	12/19/2020 6:00	50	53	30	52	54	37	0.0		-3.5	-21	3.3	182
12/19/2020 6:00	12/19/2020 7:00	53	57	34	55	58	40	0.0		-4.1	-20	2.0	341
12/19/2020 7:00	12/19/2020 8:00	55	59	35	57	61	41	0.0		-4.4	-20	0.6	191
12/19/2020 8:00	12/19/2020 9:00	57	61	37	58	63	43	0.0		-2.3	-20	1.7	237
12/19/2020 9:00	12/19/2020 10:00	58	63	38	60	64	44	0.0		5.9	-20	1.6	209
12/19/2020 10:00	12/19/2020 11:00	59	63	39	60	64	45	0.0		17.9	-14	1.2	270
12/19/2020 11:00	12/19/2020 12:00	58	63	43	60	64	49	0.0		24.4	-15	2.0	289
12/19/2020 12:00	12/19/2020 13:00	57	62	36	58	63	41	0.0	0.01	27.9	-14	1.7	291
12/19/2020 13:00	12/19/2020 14:00	57	61	36	58	62	41	0.0		30.4	-15	2.3	225
12/19/2020 14:00	12/19/2020 15:00	58	62	37	59	63	42	0.0		29	2	3.4	272
12/19/2020 15:00	12/19/2020 16:00	58	63	41	59	64	47	0.0		25.6	-6	3.7	275
12/19/2020 16:00	12/19/2020 17:00	57	62	40	59	63	45	0.0		23.8	-15	3.3	266
12/19/2020 17:00	12/19/2020 18:00	56	61	37	57	62	43	0.0		22.4	26	3.9	249
12/19/2020 18:00	12/19/2020 19:00	55	60	32	56	61	41	0.0		21.5	-13	1.7	196
12/19/2020 19:00	12/19/2020 20:00	54	59	31	55	60	39	0.0		20	6	2.0	247
12/19/2020 20:00	12/19/2020 21:00	52	57	28	53	57	38	0.0		18.2	2	2.4	219
12/19/2020 21:00	12/19/2020 22:00	51	56	32	53	58	38	0.0		15	-14	1.5	215
12/19/2020 22:00	12/19/2020 23:00	49	52	28	52	57	40	0.0		14.6	63	2.8	250
12/19/2020 23:00	12/20/2020 0:00	50	54	28	52	55	39	0.0		14.8	-4	2.2	242
12/20/2020 0:00	12/20/2020 1:00	48	47	27	50	50	41	0.0		15.3	87	4.4	227
12/20/2020 1:00	12/20/2020 2:00	47	41	29	51	48	42	0.0		16.6	88	3.8	232
12/20/2020 2:00	12/20/2020 3:00	44	36	25	48	47	41	0.0		17.6	17	3.5	234
12/20/2020 3:00	12/20/2020 4:00	44	34	26	49	49	43	0.0		17.8	243	5.0	228
12/20/2020 4:00	12/20/2020 5:00	47	42	26	51	50	42	0.0		17.9	309	5.1	241
12/20/2020 5:00	12/20/2020 6:00	47	45	26	50	49	43	0.0		16.5	267	5.2	235
12/20/2020 6:00	12/20/2020 7:00	51	56	31	53	57	43	0.0		14.4	23	3.1	242
12/20/2020 7:00	12/20/2020 8:00	53	56	36	56	58	47	0.0		14.5	603	5.9	231
12/20/2020 8:00	12/20/2020 9:00	54	59	35	59	63	46	0.0		17.8	178	5.6	237
12/20/2020 9:00	12/20/2020 10:00	55	60	34	57	61	46	0.0		24.1	122	4.2	227
12/20/2020 10:00	12/20/2020 11:00	56	61	38	58	62	47	0.0		25.6	134	4.2	213
12/20/2020 11:00	12/20/2020 12:00	56	61	37	58	62	46	0.0		26.7	232	4.6	217
12/20/2020 12:00	12/20/2020 13:00	57	62	37	58	63	45	0.0		28.1	187	4.3	204
12/20/2020 13:00	12/20/2020 14:00	56	61	36	57	62	44	0.0	Trace	29.2	114	4.0	202
12/20/2020 14:00	12/20/2020 15:00	56	61	37	57	62	44	0.1	Trace	30.8	179	4.5	228
12/20/2020 15:00	12/20/2020 16:00	56	61	37	57	62	43	0.0	0.01	29.2	20	4.0	214
12/20/2020 16:00	12/20/2020 17:00	55	60	33	56	61	44	0.0	0.01	28.1	33	3.4	194
12/20/2020 17:00	12/20/2020 18:00	53	58	35	56	60	48	0.0	Trace	27.8	479	5.4	212
12/20/2020 18:00	12/20/2020 19:00	54	59	36	57	61	50	0.0	Trace	27.7	649	5.9	226
12/20/2020 19:00	12/20/2020 20:00	53	58	37	56	60	50	0.0		28.5	1127	6.9	225
12/20/2020 20:00	12/20/2020 21:00	52	56	37	55	58	48	0.1		29.6	1024	6.8	237
12/20/2020 21:00	12/20/2020 22:00	49	52	31	52	53	44	0.1		31.4	540	6.0	240
12/20/2020 22:00	12/20/2020 23:00	51	51	30	55	54	41	0.0		31.5	318	5.5	239
12/20/2020 23:00	12/21/2020 0:00	47	46	27	49	49	37	0.0		31.7	266	5.4	243
12/21/2020 0:00	12/21/2020 1:00	47	42	26	49	47	39	0.0		31.7	389	5.8	243
12/21/2020 1:00	12/21/2020 2:00	47	42	24	50	46	37	0.0		31.6	388	5.7	240
12/21/2020 2:00	12/21/2020 3:00	49	43	29	51	47	39	0.0		31.9	735	6.9	254
12/21/2020 3:00	12/21/2020 4:00	48	43	28	50	46	38	0.1		30.8	551	6.4	255
12/21/2020 4:00	12/21/2020 5:00	54	57	29	56	58	38	0.0		26.2	427	5.9	256
12/21/2020 5:00	12/21/2020 6:00	56	61	33	58	62	40	0.0		23.1	201	4.9	255
12/21/2020 6:00	12/21/2020 7:00	57	61	36	59	62	42	0.0		23.7	139	5.0	259
12/21/2020 7:00	12/21/2020 8:00	58	62	39	59	63	44	0.0		22.2	111	4.8	270
12/21/2020 8:00	12/21/2020 9:00	57	62	34	59	63	42	0.0		24.9	117	5.1	277
12/21/2020 9:00	12/21/2020 10:00	58	62	37	60	64	42	0.1		30.8	36	4.1	273
12/21/2020 10:00	12/21/2020 11:00	58	62	36	60	63	42	0.1		32	26	4.1	270
12/21/2020 11:00	12/21/2020 12:00	57	62	35	59	63	41	0.0		35.1	21	3.8	288
12/21/2020 12:00	12/21/2020 13:00	58	63	35	60	64	42	0.0		36.4	-8	2.3	296
12/21/2020 13:00	12/21/2020 14:00	59	63	36	61	65	42	0.0	0.02	37.6	9	2.8	317
12/21/2020 14:00	12/21/2020 15:00	59	63	36	61	64	42	0.0	0.02	37.7	135	4.8	338
12/21/2020 15:00	12/21/2020 16:00	59	63	40	61	64	44	0.0	0.01	35.7	128	4.7	328
12/21/2020 16:00	12/21/2020 17:00	59	63	40	61	65	45	0.0		32.8	198	5.0	320
12/21/2020 17:00	12/21/2020 18:00	58	62	37	60	64	43	0.0		33.3	356	5.7	314
12/21/2020 18:00	12/21/2020 19:00	56	61	33	57	62	41	0.0		31.9	340	5.5	312
12/21/2020 19:00	12/21/2020 20:00	55	60	34	57	61	41	0.0		33.1	527	6.3	309
12/21/2020 20:00	12/21/2020 21:00	52	57	31	54	58	40	0.0		33	647	6.7	302
12/21/2020 21:00	12/21/2020 22:00	52	56	33	54	57	41	0.2		31.2	1285	8.1	295
12/21/2020 22:00	12/21/2020 23:00	51	53	34	55	58	42	0.3		31.5	1880	8.9	293
12/21/2020 23:00	12/22/2020 0:00	49	49	32	51	51	41	0.0		32.3	1738	8.8	298



APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/9/2020 15:00	11/9/2020 16:00	41	41	31	49	50	42	0.0		68.4	27	3.6	268
11/9/2020 16:00	11/9/2020 17:00	40	41	34	50	50	43	0.0		59	77	3.3	245
11/9/2020 17:00	11/9/2020 18:00	41	43	36	49	52	44	0.0		52.9	432	5.4	250
11/9/2020 18:00	11/9/2020 19:00	40	41	33	50	51	43	0.0		49.8	938	6.9	244
11/9/2020 19:00	11/9/2020 20:00	37	40	32	46	48	42	0.0		47.4	1007	7.2	250
11/9/2020 20:00	11/9/2020 21:00	37	38	30	45	46	40	0.0		46	911	7.2	254
11/9/2020 21:00	11/9/2020 22:00	34	37	30	46	49	39	0.1		44.7	649	6.5	268
11/9/2020 22:00	11/9/2020 23:00	34	37	30	44	45	40	0.2		43.8	932	7.4	261
11/9/2020 23:00	11/10/2020 0:00	34	36	30	44	45	42	0.2		42.7	1774	8.5	251
11/10/2020 0:00	11/10/2020 1:00	32	34	30	44	45	41	0.0		42.2	1869	8.8	260
11/10/2020 1:00	11/10/2020 2:00	34	36	31	45	46	42	0.1		41.3	2519	10.3	258
11/10/2020 2:00	11/10/2020 3:00	34	38	29	44	46	41	0.0		40.1	1619	8.0	255
11/10/2020 3:00	11/10/2020 4:00	35	37	31	47	48	44	0.0		39.5	1776	8.4	254
11/10/2020 4:00	11/10/2020 5:00	38	40	33	49	51	45	0.0		39.5	2398	9.5	250
11/10/2020 5:00	11/10/2020 6:00	40	43	34	49	52	46	0.0		38.9	2350	9.9	253
11/10/2020 6:00	11/10/2020 7:00	42	43	37	51	52	47	0.0		39.7	2459	10.1	256
11/10/2020 7:00	11/10/2020 8:00	41	43	37	52	54	47	0.0		41.6	2062	9.5	259
11/10/2020 8:00	11/10/2020 9:00	41	43	36	52	53	46	0.2		45.6	1691	8.7	260
11/10/2020 9:00	11/10/2020 10:00	48	53	39	56	60	47	0.5		53	261	4.5	251
11/10/2020 10:00	11/10/2020 11:00	48	52	39	55	58	48	0.5		63.3	436	6.4	260
11/10/2020 11:00	11/10/2020 12:00	48	52	39	56	59	48	0.9		65	-16	6.3	266
11/10/2020 12:00	11/10/2020 13:00	48	52	38	54	57	48	0.9		68.1	27	5.0	274
11/10/2020 13:00	11/10/2020 14:00	46	51	33	55	57	45	0.6		69.4	134	3.9	251
11/10/2020 14:00	11/10/2020 15:00	43	45	32	53	55	44	0.3		71	306	4.7	252
11/10/2020 15:00	11/10/2020 16:00	39	40	31	48	50	43	0.0		67.8	203	5.4	255
11/10/2020 16:00	11/10/2020 17:00	41	43	34	51	54	44	0.0		59.8	326	4.9	241
11/10/2020 17:00	11/10/2020 18:00	42	43	36	51	52	46	0.0		55.3	412	5.1	236
11/10/2020 18:00	11/10/2020 19:00	39	43	33	50	52	46	0.0		53.2	939	6.5	236
11/10/2020 19:00	11/10/2020 20:00	37	39	31	48	50	46	0.0		53	1854	8.2	241
11/10/2020 20:00	11/10/2020 21:00	38	40	30	50	51	46	0.0		55.9	1657	7.8	238
11/10/2020 21:00	11/10/2020 22:00	35	38	29	49	51	45	0.0		56	1176	7.0	236
11/10/2020 22:00	11/10/2020 23:00	34	36	30	48	50	46	0.1		56.5	2078	8.7	237
11/10/2020 23:00	11/11/2020 0:00	33	35	30	48	50	46	0.2		58.5	2290	9.1	238
11/11/2020 0:00	11/11/2020 1:00	33	35	30	50	51	48	0.2		59.4	2299	9.1	238
11/11/2020 1:00	11/11/2020 2:00	33	34	29	49	51	47	0.3		59.2	1601	7.9	239
11/11/2020 2:00	11/11/2020 3:00	33	35	29	50	51	47	0.3		59.5	1686	8.2	244
11/11/2020 3:00	11/11/2020 4:00	32	35	29	49	51	47	0.1		59.2	1874	8.4	244
11/11/2020 4:00	11/11/2020 5:00	37	39	31	50	52	48	0.1		59	2157	8.9	242
11/11/2020 5:00	11/11/2020 6:00	39	41	34	51	53	48	0.1		58.9	1585	7.9	242
11/11/2020 6:00	11/11/2020 7:00	41	44	35	53	55	50	0.1		59.4	1829	8.4	241
11/11/2020 7:00	11/11/2020 8:00	41	43	36	56	55	49	0.3		60.6	1609	8.1	245
11/11/2020 8:00	11/11/2020 9:00	39	41	36	50	52	48	0.6		62.6	1048	6.9	248
11/11/2020 9:00	11/11/2020 10:00	40	43	37	52	54	49	0.9		63.4	1577	8.0	251
11/11/2020 10:00	11/11/2020 11:00	42	45	37	55	57	50	1.1		65.4	2019	8.9	248
11/11/2020 11:00	11/11/2020 12:00	44	46	38	56	57	50	1.2		67.1	1955	8.9	246
11/11/2020 12:00	11/11/2020 13:00	43	45	39	55	57	51	1.0		67.1	2106	9.0	241
11/11/2020 13:00	11/11/2020 14:00	45	46	39	57	58	52	0.9		67.1	1747	8.5	244
11/11/2020 14:00	11/11/2020 15:00	43	45	39	55	57	51	0.8		67.1	2053	8.9	239
11/11/2020 15:00	11/11/2020 16:00	42	45	39	53	55	50	0.8		66.3	2084	8.9	238
11/11/2020 16:00	11/11/2020 17:00	41	44	38	54	56	50	0.7		66	1941	8.6	233
11/11/2020 17:00	11/11/2020 18:00	41	43	38	55	57	52	0.8	Trace	66.3	1603	8.1	229
11/11/2020 18:00	11/11/2020 19:00	40	42	37	54	56	50	0.8	Trace	65.5	1397	7.6	234
11/11/2020 19:00	11/11/2020 20:00	37	40	34	51	53	48	0.6	0.02	64.8	1107	7.0	236
11/11/2020 20:00	11/11/2020 21:00	35	37	30	49	51	45	0.3	Trace	64.1	586	5.8	230
11/11/2020 21:00	11/11/2020 22:00	35	38	30	49	51	46	0.2	0.01	63.9	773	6.3	237
11/11/2020 22:00	11/11/2020 23:00	32	34	29	47	48	44	0.4		63.7	814	6.4	239
11/11/2020 23:00	11/12/2020 0:00	30	33	28	46	48	43	0.2		63.3	1137	7.1	243
11/12/2020 0:00	11/12/2020 1:00	30	31	26	44	46	41	0.1		63.3	1038	6.8	248
11/12/2020 1:00	11/12/2020 2:00	31	32	26	43	44	40	0.2		62.9	989	6.8	256
11/12/2020 2:00	11/12/2020 3:00	31	34	26	43	45	39	0.1		62.7	968	7.0	266
11/12/2020 3:00	11/12/2020 4:00	35	35	27	47	49	41	0.7		59.7	1007	7.3	304
11/12/2020 4:00	11/12/2020 5:00	30	32	26	44	46	41	0.4	Trace	58.9	404	5.2	311
11/12/2020 5:00	11/12/2020 6:00	35	36	27	49	51	41	0.1		57.5	244	4.7	320
11/12/2020 6:00	11/12/2020 7:00	35	35	28	49	51	43	0.2		56.3	336	5.4	343
11/12/2020 7:00	11/12/2020 8:00	37	38	30	51	52	45	0.2		55.4	604	6.2	327
11/12/2020 8:00	11/12/2020 9:00	36	36	29	50	49	44	0.5		54.9	417	5.7	343
11/12/2020 9:00	11/12/2020 10:00	39	39	29	51	51	44	0.3		54	313	5.5	346
11/12/2020 10:00	11/12/2020 11:00	44	48	34	54	52	46	0.7		48.1	903	7.4	347
11/12/2020 11:00	11/12/2020 12:00	43	47	32	48	50	44	0.4	0.1	45.7	235	5.0	348
11/12/2020 12:00	11/12/2020 13:00	39	43	32	49	51	44	0.3	0.02	45.3	250	4.9	331
11/12/2020 13:00	11/12/2020 14:00	43	40	32	55	54	45	0.5	Trace	45.5	533	5.8	325
11/12/2020 14:00	11/12/2020 15:00	43	46	34	54	52	47	0.8	Trace	45.1	1017	7.6	334

Hourly Monitoring Data for Location 2 (Page 1 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/12/2020 15:00	11/12/2020 16:00	39	42	34	51	53	47	0.7		44.3	817	7.0	339
11/12/2020 16:00	11/12/2020 17:00	34	34	29	49	50	45	0.4		44.3	396	5.7	346
11/12/2020 17:00	11/12/2020 18:00	36	34	30	50	50	45	0.5		44	620	6.5	349
11/12/2020 18:00	11/12/2020 19:00	35	34	27	49	50	44	0.2		42.9	164	4.5	65
11/12/2020 19:00	11/12/2020 20:00	30	32	26	46	48	43	0.1		41.1	30	3.6	349
11/12/2020 20:00	11/12/2020 21:00	33	35	27	46	48	43	0.0		38.6	211	4.3	182
11/12/2020 21:00	11/12/2020 22:00	33	35	27	47	48	41	0.0		39.5	304	5.0	67
11/12/2020 22:00	11/12/2020 23:00	34	34	26	46	45	39	0.1		37.2	140	4.5	73
11/12/2020 23:00	11/13/2020 0:00	33	37	24	43	46	39	0.0		34.9	43	3.6	36
11/13/2020 0:00	11/13/2020 1:00	33	36	24	43	45	39	0.0		33.5	-8	1.9	48
11/13/2020 1:00	11/13/2020 2:00	35	40	26	45	48	40	0.0		31.6	34	3.2	72
11/13/2020 2:00	11/13/2020 3:00	35	38	28	46	48	42	0.0		30.4	440	5.6	89
11/13/2020 3:00	11/13/2020 4:00	39	43	30	49	51	45	0.0		30.3	571	6.2	102
11/13/2020 4:00	11/13/2020 5:00	40	44	31	49	52	44	0.0		31.2	460	5.7	104
11/13/2020 5:00	11/13/2020 6:00	43	46	34	51	54	45	0.0		31.8	500	5.9	96
11/13/2020 6:00	11/13/2020 7:00	41	44	33	51	53	45	0.0		33.6	246	4.7	95
11/13/2020 7:00	11/13/2020 8:00	41	42	34	52	52	44	0.0		34.7	82	4.4	89
11/13/2020 8:00	11/13/2020 9:00	39	40	33	49	51	44	0.1		34.6	7	4.0	79
11/13/2020 9:00	11/13/2020 10:00	38	41	34	47	50	43	0.1	0.01	35.1	-6	4.3	76
11/13/2020 10:00	11/13/2020 11:00	38	40	34	47	49	43	0.3	0.01	34.9	-1	4.6	71
11/13/2020 11:00	11/13/2020 12:00	54	55	34	61	61	46	0.1	0.01	35.5	-6	3.4	79
11/13/2020 12:00	11/13/2020 13:00	57	61	35	64	66	46	0.1	0.02	36.2	7	3.4	83
11/13/2020 13:00	11/13/2020 14:00	40	42	34	49	50	44	0.1	0.05	36.4	-9	3.5	70
11/13/2020 14:00	11/13/2020 15:00	38	39	33	50	50	44	0.1	0.02	36.9	-2	3.2	97
11/13/2020 15:00	11/13/2020 16:00	37	36	31	48	49	42	0.0	0.02	37.4	-8	1.2	167
11/13/2020 16:00	11/13/2020 17:00	37	36	30	47	49	41	0.0	0.01	37.3	-8	1.2	259
11/13/2020 17:00	11/13/2020 18:00	38	37	29	48	48	42	0.0		37.4	24	2.7	263
11/13/2020 18:00	11/13/2020 19:00	38	39	33	47	49	44	0.0		37.5	279	5.4	277
11/13/2020 19:00	11/13/2020 20:00	37	39	33	46	48	43	0.0		34.8	1201	7.6	276
11/13/2020 20:00	11/13/2020 21:00	35	38	31	46	47	42	0.0		35.2	1690	8.8	283
11/13/2020 21:00	11/13/2020 22:00	34	36	30	45	48	41	0.0	0.01	34.6	2948	11.2	293
11/13/2020 22:00	11/13/2020 23:00	41	33	28	55	45	40	0.1		37.2	2796	10.8	302
11/13/2020 23:00	11/14/2020 0:00	38	41	31	49	51	42	0.9		37	3038	11.7	303
11/14/2020 0:00	11/14/2020 1:00	39	42	36	50	52	47	1.0		37.8	3097	12.0	299
11/14/2020 1:00	11/14/2020 2:00	38	41	33	49	51	46	0.9		37.5	2983	11.7	300
11/14/2020 2:00	11/14/2020 3:00	35	37	31	47	49	44	1.1		37	2131	9.4	316
11/14/2020 3:00	11/14/2020 4:00	29	31	27	44	46	41	0.3		36.8	1717	8.7	306
11/14/2020 4:00	11/14/2020 5:00	33	36	27	43	45	40	0.0		33.9	1126	7.4	284
11/14/2020 5:00	11/14/2020 6:00	39	38	28	59	47	40	0.0		32.5	1269	7.7	287
11/14/2020 6:00	11/14/2020 7:00	38	38	29	48	48	42	0.0		33.5	2127	9.6	293
11/14/2020 7:00	11/14/2020 8:00	41	38	30	45	47	41	0.1		36.6	592	6.3	306
11/14/2020 8:00	11/14/2020 9:00	38	40	32	49	51	45	0.4		38	780	6.8	304
11/14/2020 9:00	11/14/2020 10:00	37	38	33	49	51	45	0.6	Trace	39.4	1077	7.7	308
11/14/2020 10:00	11/14/2020 11:00	40	38	32	51	49	43	0.5	Trace	39.9	478	5.9	307
11/14/2020 11:00	11/14/2020 12:00	38	38	32	49	51	44	0.8		40.2	836	7.1	325
11/14/2020 12:00	11/14/2020 13:00	39	38	32	50	51	44	0.7		40.4	719	6.8	321
11/14/2020 13:00	11/14/2020 14:00	38	39	33	51	52	46	0.8		40.7	1292	8.1	317
11/14/2020 14:00	11/14/2020 15:00	38	39	33	51	52	45	0.8		40.7	1181	7.9	317
11/14/2020 15:00	11/14/2020 16:00	36	36	30	47	48	43	0.6		40	605	6.5	333
11/14/2020 16:00	11/14/2020 17:00	34	35	29	48	50	42	0.4		38.4	704	6.8	330
11/14/2020 17:00	11/14/2020 18:00	31	33	28	45	47	41	0.1		34.1	343	5.6	325
11/14/2020 18:00	11/14/2020 19:00	33	33	27	50	47	41	0.0		32.5	590	6.3	319
11/14/2020 19:00	11/14/2020 20:00	31	33	27	45	47	41	0.1		31.1	367	5.5	322
11/14/2020 20:00	11/14/2020 21:00	31	34	25	46	46	39	0.1		31	363	5.4	341
11/14/2020 21:00	11/14/2020 22:00	31	35	24	42	44	39	0.0		30.1	276	5.2	347
11/14/2020 22:00	11/14/2020 23:00	31	34	23	40	42	35	0.0		28.3	-9	2.3	224
11/14/2020 23:00	11/15/2020 0:00	33	36	25	43	45	37	0.0		26.8	-11	2.3	169
11/15/2020 0:00	11/15/2020 1:00	31	32	23	40	42	35	0.0		26.3	-12	2.6	323
11/15/2020 1:00	11/15/2020 2:00	30	32	24	41	43	36	0.1		24.9	-2	3.5	325
11/15/2020 2:00	11/15/2020 3:00	28	30	25	41	44	37	0.1		24.7	430	6.1	289
11/15/2020 3:00	11/15/2020 4:00	31	34	25	42	44	38	0.0		23.6	665	6.8	287
11/15/2020 4:00	11/15/2020 5:00	30	33	23	41	44	36	0.0		23.7	80	3.8	304
11/15/2020 5:00	11/15/2020 6:00	35	38	25	45	45	37	0.1		22.9	32	3.7	291
11/15/2020 6:00	11/15/2020 7:00	36	39	27	43	47	37	0.0		22.8	-11	1.2	219
11/15/2020 7:00	11/15/2020 8:00	35	37	30	45	48	41	0.0		23.1	-5	3.1	127
11/15/2020 8:00	11/15/2020 9:00	36	36	28	47	47	41	0.0		26.6	-6	2.1	179
11/15/2020 9:00	11/15/2020 10:00	37	39	31	49	50	44	0.4		33	6	3.2	176
11/15/2020 10:00	11/15/2020 11:00	51	42	33	54	52	44	0.4		35.4	-9	2.6	179
11/15/2020 11:00	11/15/2020 12:00	57	42	33	60	51	45	0.2		36.6	0	3.2	152
11/15/2020 12:00	11/15/2020 13:00	53	41	33	56	51	45	0.5		36.8	10	3.1	158
11/15/2020 13:00	11/15/2020 14:00	38	40	34	49	51	46	0.3		36.7	27	3.4	160
11/15/2020 14:00	11/15/2020 15:00	39	42	35	50	52	46	0.4		36.9	385	4.9	144

Hourly Monitoring Data for Location 2 (Page 2 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/15/2020 15:00	11/15/2020 16:00	41	43	37	53	55	50	0.6		37.6	81	3.8	155
11/15/2020 16:00	11/15/2020 17:00	39	41	36	53	55	51	0.4		38.2	311	4.7	148
11/15/2020 17:00	11/15/2020 18:00	42	44	38	55	57	52	0.6		38.7	353	4.9	153
11/15/2020 18:00	11/15/2020 19:00	43	46	38	56	57	53	0.7	0.01	39.3	66	4.0	164
11/15/2020 19:00	11/15/2020 20:00	46	49	42	57	59	54	1.5	0.07	38.5	198	4.6	163
11/15/2020 20:00	11/15/2020 21:00	50	54	41	57	59	54	1.1	0.2	40.1	295	5.0	158
11/15/2020 21:00	11/15/2020 22:00	48	52	41	56	58	54	1.0	0.13	42.2	99	4.1	165
11/15/2020 22:00	11/15/2020 23:00	58	60	47	60	61	54	1.2	0.16	43.8	1989	11.0	251
11/15/2020 23:00	11/16/2020 0:00	51	54	44	58	60	50	1.2	0.09	45.2	2990	13.0	289
11/16/2020 0:00	11/16/2020 1:00	39	42	33	50	52	46	0.6	0.01	44.1	2626	10.8	286
11/16/2020 1:00	11/16/2020 2:00	35	37	32	47	48	45	0.3	0.01	43.3	2694	10.6	281
11/16/2020 2:00	11/16/2020 3:00	34	37	30	46	48	43	0.1		43.3	2720	10.2	259
11/16/2020 3:00	11/16/2020 4:00	36	38	31	48	50	45	0.3		43.1	2048	9.1	274
11/16/2020 4:00	11/16/2020 5:00	38	40	33	49	51	46	0.3		42.5	2822	10.9	273
11/16/2020 5:00	11/16/2020 6:00	39	42	35	50	52	47	0.5		42.4	2746	10.7	267
11/16/2020 6:00	11/16/2020 7:00	42	44	39	53	55	49	0.8		41.2	3077	11.9	277
11/16/2020 7:00	11/16/2020 8:00	41	43	37	51	53	48	0.4		41.2	2364	9.9	268
11/16/2020 8:00	11/16/2020 9:00	47	50	42	58	60	52	1.5		42.2	2904	12.7	274
11/16/2020 9:00	11/16/2020 10:00	49	52	43	60	62	54	1.8		43.4	3029	13.7	279
11/16/2020 10:00	11/16/2020 11:00	44	47	40	55	57	51	1.3		43.8	2737	11.5	282
11/16/2020 11:00	11/16/2020 12:00	49	52	43	59	62	53	1.7		43.4	2975	12.5	290
11/16/2020 12:00	11/16/2020 13:00	47	50	41	57	60	52	1.7		43.2	2634	11.2	284
11/16/2020 13:00	11/16/2020 14:00	47	50	42	58	60	53	1.5		43.2	2665	11.4	281
11/16/2020 14:00	11/16/2020 15:00	47	50	42	57	59	52	1.5		41.9	2779	11.7	273
11/16/2020 15:00	11/16/2020 16:00	45	47	41	55	57	51	1.2		40.7	2934	11.5	266
11/16/2020 16:00	11/16/2020 17:00	43	45	40	53	55	50	0.9		40.2	2645	10.5	266
11/16/2020 17:00	11/16/2020 18:00	42	44	38	53	55	49	0.9		40.5	2180	9.7	275
11/16/2020 18:00	11/16/2020 19:00	39	42	35	51	53	48	0.8		40.2	2058	9.4	284
11/16/2020 19:00	11/16/2020 20:00	36	39	33	50	52	47	0.6		39.2	2137	9.6	294
11/16/2020 20:00	11/16/2020 21:00	35	37	31	49	50	45	0.4		37.9	1945	9.1	288
11/16/2020 21:00	11/16/2020 22:00	38	37	30	50	50	45	0.2		37.4	1833	8.8	280
11/16/2020 22:00	11/16/2020 23:00	32	35	27	44	48	36	0.2		36.7	224	8.3	282
11/16/2020 23:00	11/17/2020 0:00	33	34	28	45	47	38	0.2		36.8	1069	8.4	275
11/17/2020 0:00	11/17/2020 1:00	32	33	28	45	47	42	0.1		36.6	1406	7.9	269
11/17/2020 1:00	11/17/2020 2:00	37	37	29	46	48	43	0.3		34.8	2233	9.5	273
11/17/2020 2:00	11/17/2020 3:00	33	36	30	47	49	44	0.3		35.6	2147	9.5	279
11/17/2020 3:00	11/17/2020 4:00	33	37	28	45	48	41	0.1		31	1427	8.0	268
11/17/2020 4:00	11/17/2020 5:00	36	39	30	46	48	42	0.1		32.7	1329	7.9	271
11/17/2020 5:00	11/17/2020 6:00	39	42	32	48	51	42	0.0		29.7	1234	7.9	270
11/17/2020 6:00	11/17/2020 7:00	42	44	35	51	53	44	0.0		28.8	1530	8.1	258
11/17/2020 7:00	11/17/2020 8:00	41	44	36	51	53	46	0.1		29.6	1316	7.5	255
11/17/2020 8:00	11/17/2020 9:00	38	41	33	49	52	44	0.1		33.6	978	7.0	262
11/17/2020 9:00	11/17/2020 10:00	37	40	33	49	51	44	0.7		36.8	498	5.9	271
11/17/2020 10:00	11/17/2020 11:00	39	40	33	51	52	45	0.7		37.7	597	6.3	286
11/17/2020 11:00	11/17/2020 12:00	39	40	32	51	51	45	0.8		38	647	6.4	292
11/17/2020 12:00	11/17/2020 13:00	42	41	34	53	53	46	1.0		39.1	1061	7.3	279
11/17/2020 13:00	11/17/2020 14:00	38	41	31	49	51	43	0.5		39.2	557	6.2	307
11/17/2020 14:00	11/17/2020 15:00	40	41	33	50	51	45	0.6		38.7	831	7.0	289
11/17/2020 15:00	11/17/2020 16:00	34	36	30	46	49	42	0.2		37.8	335	6.0	301
11/17/2020 16:00	11/17/2020 17:00	38	40	33	50	51	44	0.4		33.9	919	7.3	310
11/17/2020 17:00	11/17/2020 18:00	38	40	34	48	49	44	0.0	Trace	33.8	1105	7.8	286
11/17/2020 18:00	11/17/2020 19:00	38	39	31	47	48	42	0.0		32.7	934	7.2	296
11/17/2020 19:00	11/17/2020 20:00	35	38	30	46	48	43	0.5		32.3	1048	7.7	327
11/17/2020 20:00	11/17/2020 21:00	35	32	27	47	48	43	0.5		31.4	809	7.2	342
11/17/2020 21:00	11/17/2020 22:00	32	34	25	48	50	41	0.6	Trace	30.5	719	6.8	344
11/17/2020 22:00	11/17/2020 23:00	37	40	33	50	53	47	1.1	Trace	30.3	1750	9.0	337
11/17/2020 23:00	11/18/2020 0:00	34	37	30	49	50	46	0.8	Trace	29.3	1474	8.5	330
11/18/2020 0:00	11/18/2020 1:00	39	40	31	52	53	46	1.0		28	1887	9.3	336
11/18/2020 1:00	11/18/2020 2:00	34	37	30	49	51	45	0.9		26.4	1457	8.6	341
11/18/2020 2:00	11/18/2020 3:00	29	32	25	47	49	43	0.5		25.3	938	7.7	343
11/18/2020 3:00	11/18/2020 4:00	29	30	24	46	49	43	0.3		25	667	6.9	337
11/18/2020 4:00	11/18/2020 5:00	32	34	28	47	49	44	0.6		24.2	1114	8.0	338
11/18/2020 5:00	11/18/2020 6:00	36	39	31	50	52	46	0.8		22.5	1812	9.3	342
11/18/2020 6:00	11/18/2020 7:00	39	40	32	52	54	47	1.0		21.1	1796	9.1	339
11/18/2020 7:00	11/18/2020 8:00	39	43	33	52	54	48	1.3		21	2395	10.3	327
11/18/2020 8:00	11/18/2020 9:00	42	46	37	56	59	50	1.5		21.9	2455	10.7	334
11/18/2020 9:00	11/18/2020 10:00	40	43	34	54	55	49	1.3		22.9	2278	10.2	345
11/18/2020 10:00	11/18/2020 11:00	40	43	35	54	55	49	1.4		22.7	2219	10.0	344
11/18/2020 11:00	11/18/2020 12:00	42	45	36	54	56	50	1.5		23.7	2432	10.4	343
11/18/2020 12:00	11/18/2020 13:00	42	44	36	54	56	50	1.5		23.8	2138	10.0	342
11/18/2020 13:00	11/18/2020 14:00	41	44	36	55	57	50	1.5		25.8	2447	10.5	334
11/18/2020 14:00	11/18/2020 15:00	53	56	34	60	65	47	1.2		26.5	1631	8.9	336

Hourly Monitoring Data for Location 2 (Page 3 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LA <sub>eq</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>90</sub> (dBA)	LC <sub>eq</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>90</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/18/2020 15:00	11/18/2020 16:00	39	40	31	51	53	46	0.8		25.2	1469	8.9	322
11/18/2020 16:00	11/18/2020 17:00	38	39	32	51	52	47	1.0		23.6	2217	9.9	327
11/18/2020 17:00	11/18/2020 18:00	34	32	26	49	50	44	0.4		22.4	717	7.0	336
11/18/2020 18:00	11/18/2020 19:00	35	29	22	49	47	41	0.3		21	550	6.7	347
11/18/2020 19:00	11/18/2020 20:00	29	29	23	45	46	40	0.2		19.4	376	6.0	346
11/18/2020 20:00	11/18/2020 21:00	25	27	21	42	44	39	0.3		18.8	436	6.2	337
11/18/2020 21:00	11/18/2020 22:00	28	30	21	45	46	39	0.0		15.8	207	5.5	334
11/18/2020 22:00	11/18/2020 23:00	25	27	21	41	43	37	0.0		14.6	244	5.5	322
11/18/2020 23:00	11/19/2020 0:00	26	29	20	41	44	38	0.0		13.8	180	5.2	319
11/19/2020 0:00	11/19/2020 1:00	25	27	21	40	43	37	0.0		13.1	171	5.1	318
11/19/2020 1:00	11/19/2020 2:00	30	32	22	42	44	36	0.0		12.8	19	4.0	308
11/19/2020 2:00	11/19/2020 3:00	30	32	22	40	43	36	0.0		13.2	19	3.7	308
11/19/2020 3:00	11/19/2020 4:00	36	34	22	46	46	38	0.0		16.1	137	4.9	292
11/19/2020 4:00	11/19/2020 5:00	31	34	21	44	47	39	0.0		18.7	10	4.1	257
11/19/2020 5:00	11/19/2020 6:00	34	37	28	46	48	42	0.0		19.6	-11	3.1	244
11/19/2020 6:00	11/19/2020 7:00	40	42	32	52	55	44	0.0		20.4	67	4.3	231
11/19/2020 7:00	11/19/2020 8:00	39	40	31	50	53	45	0.1		21.2	152	4.5	225
11/19/2020 8:00	11/19/2020 9:00	41	43	34	58	57	46	0.5		22.8	212	4.8	225
11/19/2020 9:00	11/19/2020 10:00	42	45	34	60	57	47	0.7		25.7	318	5.0	222
11/19/2020 10:00	11/19/2020 11:00	43	44	36	60	56	48	0.8		28.9	267	4.8	221
11/19/2020 11:00	11/19/2020 12:00	41	43	37	53	55	49	1.2		31.6	489	5.3	216
11/19/2020 12:00	11/19/2020 13:00	41	43	37	53	55	50	1.3		34.7	460	5.3	218
11/19/2020 13:00	11/19/2020 14:00	43	44	38	57	56	51	1.2		37.3	768	6.0	219
11/19/2020 14:00	11/19/2020 15:00	42	45	37	55	56	51	1.1		38.2	979	6.5	217
11/19/2020 15:00	11/19/2020 16:00	42	44	38	54	56	51	0.8		37.1	363	6.4	224
11/19/2020 16:00	11/19/2020 17:00	42	43	37	53	55	49	0.5		36.4	1417	7.5	230
11/19/2020 17:00	11/19/2020 18:00	41	44	38	55	56	53	0.8		36.6	2596	10.0	231
11/19/2020 18:00	11/19/2020 19:00	42	44	37	55	57	52	0.8		37.2	2506	9.6	236
11/19/2020 19:00	11/19/2020 20:00	38	41	35	53	55	51	0.6		37.3	1934	8.4	239
11/19/2020 20:00	11/19/2020 21:00	37	40	33	52	54	49	0.2		37.6	1574	7.7	238
11/19/2020 21:00	11/19/2020 22:00	35	37	32	52	53	49	0.2		38.1	2561	9.7	237
11/19/2020 22:00	11/19/2020 23:00	40	41	36	53	55	51	0.7		38.7	2731	9.8	238
11/19/2020 23:00	11/20/2020 0:00	38	40	36	52	53	50	0.8		39.5	3104	11.6	238
11/20/2020 0:00	11/20/2020 1:00	35	37	33	51	53	49	0.6		39.5	2817	10.2	238
11/20/2020 1:00	11/20/2020 2:00	34	37	31	51	53	49	0.4		40	939	6.5	243
11/20/2020 2:00	11/20/2020 3:00	37	40	33	52	54	50	0.5		40.6	789	6.2	246
11/20/2020 3:00	11/20/2020 4:00	38	40	34	53	54	50	0.8		41.7	1145	7.0	241
11/20/2020 4:00	11/20/2020 5:00	39	41	34	52	54	50	0.4		42.3	1334	7.3	243
11/20/2020 5:00	11/20/2020 6:00	40	43	34	53	55	50	0.2		43.1	1472	7.4	242
11/20/2020 6:00	11/20/2020 7:00	40	42	36	52	54	49	0.3		42.9	2430	9.2	238
11/20/2020 7:00	11/20/2020 8:00	41	43	36	53	55	49	0.3		42.9	2036	8.5	239
11/20/2020 8:00	11/20/2020 9:00	40	43	37	52	54	48	0.6	Trace	42.7	995	6.7	242
11/20/2020 9:00	11/20/2020 10:00	41	43	37	54	55	49	0.6	Trace	44.1	948	6.3	243
11/20/2020 10:00	11/20/2020 11:00	42	44	38	56	59	49	0.7		45.5	502	5.2	245
11/20/2020 11:00	11/20/2020 12:00	41	43	37	52	54	49	0.3		45.1	564	5.5	242
11/20/2020 12:00	11/20/2020 13:00	42	43	35	54	54	47	0.4		50.3	88	3.3	233
11/20/2020 13:00	11/20/2020 14:00	43	43	35	61	55	46	0.5		54	295	3.7	250
11/20/2020 14:00	11/20/2020 15:00	41	43	35	54	55	46	0.2		55.5	558	5.2	235
11/20/2020 15:00	11/20/2020 16:00	43	42	36	54	52	46	0.3		54.4	69	4.8	241
11/20/2020 16:00	11/20/2020 17:00	41	41	35	50	50	45	0.0		51	613	5.6	241
11/20/2020 17:00	11/20/2020 18:00	40	41	37	52	53	47	0.0		40.8	1464	7.4	239
11/20/2020 18:00	11/20/2020 19:00	41	40	35	53	52	48	0.1		38.5	1431	7.3	241
11/20/2020 19:00	11/20/2020 20:00	37	39	34	51	52	49	0.2		45.4	1931	8.2	238
11/20/2020 20:00	11/20/2020 21:00	35	37	32	50	52	48	0.1		38.5	513	5.3	249
11/20/2020 21:00	11/20/2020 22:00	36	38	33	50	52	48	0.4		39.6	1711	7.9	252
11/20/2020 22:00	11/20/2020 23:00	37	38	34	51	52	48	0.5		52.6	2018	8.5	246
11/20/2020 23:00	11/21/2020 0:00	34	36	30	49	51	44	0.2		52.1	2011	8.7	257
11/21/2020 0:00	11/21/2020 1:00	32	34	29	45	46	43	0.1		47.6	3106	12.7	274
11/21/2020 1:00	11/21/2020 2:00	33	35	30	46	48	44	0.2		46.6	1599	8.0	281
11/21/2020 2:00	11/21/2020 3:00	31	32	29	45	47	44	0.1		45.3	2031	9.0	279
11/21/2020 3:00	11/21/2020 4:00	32	34	29	45	47	43	0.0		46.2	2560	10.1	283
11/21/2020 4:00	11/21/2020 5:00	38	35	30	58	47	43	0.1		43.1	1901	8.9	281
11/21/2020 5:00	11/21/2020 6:00	40	37	32	51	48	44	0.2		40.4	1720	8.5	284
11/21/2020 6:00	11/21/2020 7:00	38	37	31	49	50	43	0.1		37	1296	7.8	292
11/21/2020 7:00	11/21/2020 8:00	41	38	30	50	49	42	0.0		36.8	968	7.3	294
11/21/2020 8:00	11/21/2020 9:00	38	39	29	49	51	42	0.1		39.1	240	5.0	314
11/21/2020 9:00	11/21/2020 10:00	40	41	31	53	54	44	0.7		50.3	1085	7.5	320
11/21/2020 10:00	11/21/2020 11:00	40	38	33	54	54	48	0.7		50.3	1293	8.1	318
11/21/2020 11:00	11/21/2020 12:00	37	39	34	51	52	47	0.9		51.2	1149	7.9	310
11/21/2020 12:00	11/21/2020 13:00	37	38	34	49	50	46	1.0		51.2	814	6.9	312
11/21/2020 13:00	11/21/2020 14:00	61	65	33	71	75	46	0.6		51.9	343	5.4	327
11/21/2020 14:00	11/21/2020 15:00	50	43	31	54	55	44	0.5		50.8	619	6.3	304

Hourly Monitoring Data for Location 2 (Page 4 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1			
Start	End	LA <sub>eq</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>90</sub> (dBA)	LC <sub>eq</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>90</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	
11/21/2020 15:00	11/21/2020 16:00	53	46	30	54	51	42	0.4		48.6	166	6.1	329	
11/21/2020 16:00	11/21/2020 17:00	47	41	29	51	51	42	0.6		45.8	711	6.8	332	
11/21/2020 17:00	11/21/2020 18:00	36	31	26	50	47	41	0.3		43.8	423	5.9	339	
11/21/2020 18:00	11/21/2020 19:00	33	31	24	46	46	40	0.1		41.6	148	4.3	350	
11/21/2020 19:00	11/21/2020 20:00	32	33	24	44	46	41	0.1		39.7	183	4.7	27	
11/21/2020 20:00	11/21/2020 21:00	27	29	23	42	45	40	0.2		38.5	227	4.8	14	
11/21/2020 21:00	11/21/2020 22:00	26	28	22	43	45	39	0.2		36.2	162	4.5	11	
11/21/2020 22:00	11/21/2020 23:00	26	28	20	42	44	38	0.1		32.8	273	5.4	9	
11/21/2020 23:00	11/22/2020 0:00	27	29	22	42	45	36	0.0		29.2	75	4.1	70	
11/22/2020 0:00	11/22/2020 1:00	31	34	24	42	44	37	0.0		27.6	0	3.1	14	
11/22/2020 1:00	11/22/2020 2:00	30	34	24	42	44	37	0.0		26.5	35	3.6	31	
11/22/2020 2:00	11/22/2020 3:00	30	31	24	42	45	38	0.0		25.8	143	4.7	36	
11/22/2020 3:00	11/22/2020 4:00	33	36	23	43	46	38	0.0		24.5	188	5.2	51	
11/22/2020 4:00	11/22/2020 5:00	36	40	25	44	47	39	0.0		23.3	156	5.0	51	
11/22/2020 5:00	11/22/2020 6:00	34	38	26	42	45	37	0.0		22.5	53	4.2	92	
11/22/2020 6:00	11/22/2020 7:00	37	40	26	46	49	41	0.0		22.1	137	4.5	95	
11/22/2020 7:00	11/22/2020 8:00	36	40	29	47	48	41	0.0		22.3	83	4.2	99	
11/22/2020 8:00	11/22/2020 9:00	37	39	31	52	54	41	0.0		26.3	-5	5.0	121	
11/22/2020 9:00	11/22/2020 10:00	37	39	31	50	54	44	0.5		33	206	4.6	115	
11/22/2020 10:00	11/22/2020 11:00	39	40	32	51	50	44	0.5		33	183	4.4	117	
11/22/2020 11:00	11/22/2020 12:00	39	41	33	49	51	44	0.8		33.8	158	4.5	105	
11/22/2020 12:00	11/22/2020 13:00	38	39	31	49	51	44	0.4		33.9	67	3.9	119	
11/22/2020 13:00	11/22/2020 14:00	37	39	33	47	49	44	0.4		33.9	166	4.3	118	
11/22/2020 14:00	11/22/2020 15:00	38	40	34	49	52	45	0.6		Trace	33.7	292	4.8	116
11/22/2020 15:00	11/22/2020 16:00	39	41	35	50	53	47	0.6	Trace	33.5	308	5.1	113	
11/22/2020 16:00	11/22/2020 17:00	37	40	32	48	49	45	0.4		33.4	381	5.1	118	
11/22/2020 17:00	11/22/2020 18:00	37	39	31	49	50	45	0.2		33.3	246	4.6	113	
11/22/2020 18:00	11/22/2020 19:00	43	43	33	50	52	47	0.2		32.5	281	5.2	123	
11/22/2020 19:00	11/22/2020 20:00	39	42	32	50	53	45	0.2		32.4	190	5.3	116	
11/22/2020 20:00	11/22/2020 21:00	35	38	27	45	47	37	0.2		31.9	54	6.7	136	
11/22/2020 21:00	11/22/2020 22:00	28	32	22	39	40	32	0.1		32.4	-8	5.5	129	
11/22/2020 22:00	11/22/2020 23:00	31	33	29	48	50	46	0.0	0.01	32.5	65	5.1	119	
11/22/2020 23:00	11/23/2020 0:00	33	34	31	49	51	47	0.0	0.01	32.3	724	6.2	113	
11/23/2020 0:00	11/23/2020 1:00	35	37	32	50	51	48	0.0	0.02	32.9	615	5.6	119	
11/23/2020 1:00	11/23/2020 2:00	40	44	35	50	52	48	0.1	0.01	33.1	628	5.7	122	
11/23/2020 2:00	11/23/2020 3:00	40	44	35	51	53	49	0.3	Trace	33.3	782	6.1	122	
11/23/2020 3:00	11/23/2020 4:00	38	41	35	52	54	49	0.2	Trace	34.6	792	6.0	124	
11/23/2020 4:00	11/23/2020 5:00	37	40	33	50	52	48	0.0	Trace	36.6	402	5.0	122	
11/23/2020 5:00	11/23/2020 6:00	42	47	34	52	53	48	0.0	0.04	36.9	413	4.8	127	
11/23/2020 6:00	11/23/2020 7:00	45	49	35	50	52	46	0.1	0.01	36.9	90	3.1	134	
11/23/2020 7:00	11/23/2020 8:00	44	47	37	49	51	45	0.2	0.08	37.7	127	4.0	240	
11/23/2020 8:00	11/23/2020 9:00	45	47	39	53	51	46	0.0	0.22	40.9	52	3.7	332	
11/23/2020 9:00	11/23/2020 10:00	45	48	38	51	53	47	0.0	0.07	41.1	43	2.8	279	
11/23/2020 10:00	11/23/2020 11:00	51	53	46	55	57	51	0.2	0.13	41.6	2136	9.5	276	
11/23/2020 11:00	11/23/2020 12:00	43	47	36	52	53	47	0.5	0.05	44	1145	7.7	301	
11/23/2020 12:00	11/23/2020 13:00	42	44	36	53	55	49	0.9	Trace	42.1	2046	9.5	309	
11/23/2020 13:00	11/23/2020 14:00	47	50	42	58	60	53	1.6		41.5	3072	13.0	300	
11/23/2020 14:00	11/23/2020 15:00	45	47	41	56	58	52	1.5		40.5	3066	12.6	301	
11/23/2020 15:00	11/23/2020 16:00	45	48	42	56	58	52	1.5		38.8	823	12.4	309	
11/23/2020 16:00	11/23/2020 17:00	49	51	45	59	61	55	1.9		37	3189	15.4	304	
11/23/2020 17:00	11/23/2020 18:00	45	48	41	56	59	52	1.4		35.2	2951	12.9	308	
11/23/2020 18:00	11/23/2020 19:00	40	43	35	53	55	50	1.0		34.4	2501	10.5	313	
11/23/2020 19:00	11/23/2020 20:00	43	46	38	55	57	50	1.3		33.7	2766	11.8	308	
11/23/2020 20:00	11/23/2020 21:00	44	47	40	56	58	52	1.5		33.1	3058	12.8	303	
11/23/2020 21:00	11/23/2020 22:00	44	47	38	56	58	50	1.6		32.9	3004	12.7	309	
11/23/2020 22:00	11/23/2020 23:00	40	42	35	53	55	49	1.1		32.2	2344	10.3	314	
11/23/2020 23:00	11/24/2020 0:00	39	41	35	53	54	49	1.4		32.2	2206	10.1	321	
11/24/2020 0:00	11/24/2020 1:00	39	40	36	51	53	48	1.2		32.2	2786	11.2	319	
11/24/2020 1:00	11/24/2020 2:00	37	39	32	50	52	46	1.2		32.1	2506	10.4	315	
11/24/2020 2:00	11/24/2020 3:00	33	36	27	48	50	45	0.9		32.1	1989	9.4	324	
11/24/2020 3:00	11/24/2020 4:00	29	31	24	46	48	42	0.3		31.1	913	7.2	329	
11/24/2020 4:00	11/24/2020 5:00	32	34	29	47	49	44	0.5		30.7	1509	8.5	327	
11/24/2020 5:00	11/24/2020 6:00	36	38	29	48	50	44	0.2		31.4	889	7.1	311	
11/24/2020 6:00	11/24/2020 7:00	39	38	32	51	52	46	0.4		32.3	1499	8.4	307	
11/24/2020 7:00	11/24/2020 8:00	39	40	35	51	53	48	1.1		32.9	2068	9.7	323	
11/24/2020 8:00	11/24/2020 9:00	44	47	36	56	58	49	1.3		33.1	-10	10.7	333	
11/24/2020 9:00	11/24/2020 10:00	43	47	37	56	58	50	1.6		33.6	1723	9.6	328	
11/24/2020 10:00	11/24/2020 11:00	42	44	36	54	56	50	1.5		34.1	1865	9.3	329	
11/24/2020 11:00	11/24/2020 12:00	38	41	35	52	54	48	1.2		34.3	1315	8.1	328	
11/24/2020 12:00	11/24/2020 13:00	45	40	35	55	53	48	1.1		35.1	1232	7.9	310	
11/24/2020 13:00	11/24/2020 14:00	46	41	36	57	57	49	1.0		35.4	1620	8.7	308	
11/24/2020 14:00	11/24/2020 15:00	47	43	34	56	56	47	0.9		35.8	1153	7.7	310	

Hourly Monitoring Data for Location 2 (Page 5 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LA <sub>eq</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>90</sub> (dBA)	LC <sub>eq</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>90</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/24/2020 15:00	11/24/2020 16:00	41	36	30	53	49	43	0.5		33.9	76	5.9	331
11/24/2020 16:00	11/24/2020 17:00	38	34	29	51	54	43	0.3		31	598	6.7	329
11/24/2020 17:00	11/24/2020 18:00	37	35	28	53	56	44	0.3		30.6	602	6.6	283
11/24/2020 18:00	11/24/2020 19:00	28	31	23	43	45	39	0.1		28.1	69	4.2	69
11/24/2020 19:00	11/24/2020 20:00	28	32	20	42	45	37	0.0		26.6	-2	3.5	35
11/24/2020 20:00	11/24/2020 21:00	27	31	19	43	45	37	0.0		24.5	-15	3.1	25
11/24/2020 21:00	11/24/2020 22:00	28	29	19	41	44	35	0.0		22.7	-12	3.0	70
11/24/2020 22:00	11/24/2020 23:00	27	27	20	46	45	37	0.0		22.3	-16	3.1	269
11/24/2020 23:00	11/25/2020 0:00	27	30	20	40	42	33	0.0		22.1	-18	2.8	93
11/25/2020 0:00	11/25/2020 1:00	35	30	20	44	44	36	0.0		21.5	54	4.2	101
11/25/2020 1:00	11/25/2020 2:00	29	33	20	43	46	38	0.0		21.5	44	3.8	115
11/25/2020 2:00	11/25/2020 3:00	28	32	23	45	47	41	0.1		22.3	134	4.0	119
11/25/2020 3:00	11/25/2020 4:00	28	32	23	46	48	43	0.2		23	154	4.2	123
11/25/2020 4:00	11/25/2020 5:00	31	34	24	47	49	44	0.2		23.2	95	3.8	129
11/25/2020 5:00	11/25/2020 6:00	38	37	28	60	50	45	0.1		23.5	36	3.7	120
11/25/2020 6:00	11/25/2020 7:00	37	39	31	51	53	46	0.3		24.1	41	3.8	108
11/25/2020 7:00	11/25/2020 8:00	36	38	33	50	53	47	0.2		24.2	80	3.7	121
11/25/2020 8:00	11/25/2020 9:00	36	37	33	50	52	48	0.2		24.9	124	3.8	145
11/25/2020 9:00	11/25/2020 10:00	38	40	34	55	55	49	0.3		26	8	3.0	168
11/25/2020 10:00	11/25/2020 11:00	39	39	34	54	54	50	0.2		27.7	43	3.4	207
11/25/2020 11:00	11/25/2020 12:00	41	43	37	52	54	50	0.4		29.7	52	3.3	195
11/25/2020 12:00	11/25/2020 13:00	41	41	34	50	52	47	0.2		31.3	1	2.8	195
11/25/2020 13:00	11/25/2020 14:00	51	42	33	57	54	47	0.0		33.1	-8	2.7	201
11/25/2020 14:00	11/25/2020 15:00	49	50	35	59	63	47	0.1		33.2	40	3.4	197
11/25/2020 15:00	11/25/2020 16:00	38	39	34	50	52	46	0.0		33	6	3.9	218
11/25/2020 16:00	11/25/2020 17:00	40	39	34	54	55	48	0.0		31.9	171	4.0	238
11/25/2020 17:00	11/25/2020 18:00	41	40	35	53	55	49	0.0		31.4	56	3.4	238
11/25/2020 18:00	11/25/2020 19:00	39	41	34	52	54	48	0.0		31.1	106	3.9	224
11/25/2020 19:00	11/25/2020 20:00	36	38	32	48	50	45	0.0		30.9	55	3.4	219
11/25/2020 20:00	11/25/2020 21:00	39	42	34	50	51	46	0.0		31	536	5.8	234
11/25/2020 21:00	11/25/2020 22:00	41	43	35	51	52	46	0.0	0.01	31.4	338	5.1	236
11/25/2020 22:00	11/25/2020 23:00	40	42	34	51	52	46	0.1	0.01	32.9	392	5.2	239
11/25/2020 23:00	11/26/2020 0:00	42	44	36	52	52	47	0.0	0.01	32.9	585	5.9	241
11/26/2020 0:00	11/26/2020 1:00	37	40	32	49	51	45	0.0	Trace	33	505	5.0	244
11/26/2020 1:00	11/26/2020 2:00	36	39	31	50	52	48	0.0	Trace	33.1	92	3.4	235
11/26/2020 2:00	11/26/2020 3:00	45	48	40	49	51	47	0.0	0.08	33.2	227	4.3	222
11/26/2020 3:00	11/26/2020 4:00	45	46	42	47	49	45	0.0	0.09	33	66	3.3	205
11/26/2020 4:00	11/26/2020 5:00	47	50	43	49	51	46	0.0	0.08	32.9	27	3.1	167
11/26/2020 5:00	11/26/2020 6:00	49	51	45	50	52	48	0.0	0.07	32.7	31	2.8	133
11/26/2020 6:00	11/26/2020 7:00	46	50	35	49	52	46	0.0	0.23	32.9	16	3.0	103
11/26/2020 7:00	11/26/2020 8:00	41	45	34	48	50	45	0.0	0.18	32.9	1	2.8	118
11/26/2020 8:00	11/26/2020 9:00	39	41	37	47	49	44	0.0	0.06	33.3	-9	3.2	70
11/26/2020 9:00	11/26/2020 10:00	39	40	36	49	49	44	0.0	0.11	33.9	70	4.4	66
11/26/2020 10:00	11/26/2020 11:00	42	46	36	48	50	45	0.0	0.04	35.3	90	4.4	66
11/26/2020 11:00	11/26/2020 12:00	42	45	34	49	51	45	0.0	0.11	36.6	20	3.7	63
11/26/2020 12:00	11/26/2020 13:00	40	42	31	49	51	44	0.0	0.01	37.5	10	3.4	63
11/26/2020 13:00	11/26/2020 14:00	45	50	30	47	50	43	0.1	0.01	38.6	63	4.0	105
11/26/2020 14:00	11/26/2020 15:00	51	55	33	51	55	42	0.1	0.13	39	-7	1.8	156
11/26/2020 15:00	11/26/2020 16:00	33	34	30	44	46	41	0.0	0.06	39.7	-8	1.5	33
11/26/2020 16:00	11/26/2020 17:00	37	39	31	46	47	41	0.0	0.02	38.6	-8	1.4	235
11/26/2020 17:00	11/26/2020 18:00	36	39	32	45	47	42	0.0	0.01	38.4	43	2.9	267
11/26/2020 18:00	11/26/2020 19:00	35	36	32	46	47	42	0.0	0.01	37.4	13	2.9	254
11/26/2020 19:00	11/26/2020 20:00	38	40	35	46	47	43	0.1		34.9	499	5.6	256
11/26/2020 20:00	11/26/2020 21:00	37	39	34	44	46	42	0.0		33	865	6.8	264
11/26/2020 21:00	11/26/2020 22:00	35	36	32	43	44	40	0.0		31.8	825	6.6	271
11/26/2020 22:00	11/26/2020 23:00	34	36	32	43	45	41	0.0		31.4	1629	8.4	276
11/26/2020 23:00	11/27/2020 0:00	34	36	32	43	45	41	0.1		31.4	2498	9.8	272
11/27/2020 0:00	11/27/2020 1:00	33	34	32	42	43	40	0.0	0.01	32.9	2730	10.5	277
11/27/2020 1:00	11/27/2020 2:00	33	35	31	42	44	40	0.0		37.8	1850	8.9	281
11/27/2020 2:00	11/27/2020 3:00	35	37	31	44	46	41	0.0		37.3	1919	9.0	279
11/27/2020 3:00	11/27/2020 4:00	34	36	31	43	45	40	0.0		41.2	1788	8.6	274
11/27/2020 4:00	11/27/2020 5:00	38	40	33	46	48	42	0.0		41.2	1710	8.9	284
11/27/2020 5:00	11/27/2020 6:00	40	41	32	50	50	42	0.0		38	1120	7.6	290
11/27/2020 6:00	11/27/2020 7:00	38	41	32	47	50	41	0.0		35.8	521	6.2	290
11/27/2020 7:00	11/27/2020 8:00	39	42	34	48	51	42	0.0		35.5	645	6.4	291
11/27/2020 8:00	11/27/2020 9:00	38	41	33	47	50	42	0.0		37	-13	7.8	294
11/27/2020 9:00	11/27/2020 10:00	41	40	33	57	51	43	0.3		45.1	655	6.9	286
11/27/2020 10:00	11/27/2020 11:00	39	39	34	49	50	43	0.3		49.6	668	6.5	285
11/27/2020 11:00	11/27/2020 12:00	41	39	32	60	51	43	0.4		49.4	348	5.3	298
11/27/2020 12:00	11/27/2020 13:00	39	40	33	50	52	44	0.7		49.6	556	5.9	306
11/27/2020 13:00	11/27/2020 14:00	38	40	35	51	52	46	0.9		49.7	703	6.6	307
11/27/2020 14:00	11/27/2020 15:00	40	37	33	52	50	45	0.8		48.9	696	6.6	320

Hourly Monitoring Data for Location 2 (Page 6 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/27/2020 15:00	11/27/2020 16:00	40	37	31	53	51	43	0.5		47.6	401	5.7	327
11/27/2020 16:00	11/27/2020 17:00	37	34	31	48	47	42	0.5		45.9	255	5.0	325
11/27/2020 17:00	11/27/2020 18:00	35	36	30	48	49	41	0.3		42.9	243	4.8	309
11/27/2020 18:00	11/27/2020 19:00	37	36	30	50	47	41	0.0		42	180	4.7	299
11/27/2020 19:00	11/27/2020 20:00	28	30	24	43	45	39	0.1		41	107	4.1	324
11/27/2020 20:00	11/27/2020 21:00	30	33	24	42	44	39	0.0		39.7	40	3.5	320
11/27/2020 21:00	11/27/2020 22:00	35	35	26	45	45	39	0.0		39.4	114	4.0	306
11/27/2020 22:00	11/27/2020 23:00	31	31	26	44	44	38	0.1		39.4	391	5.8	319
11/27/2020 23:00	11/28/2020 0:00	32	33	26	41	44	38	0.1		39.3	196	4.6	309
11/28/2020 0:00	11/28/2020 1:00	28	30	26	41	44	39	0.0		39.8	322	5.5	299
11/28/2020 1:00	11/28/2020 2:00	31	34	28	44	47	39	0.0		39.5	214	4.8	294
11/28/2020 2:00	11/28/2020 3:00	32	34	27	42	45	38	0.0		38.9	58	3.6	303
11/28/2020 3:00	11/28/2020 4:00	31	34	26	44	47	38	0.0		38.4	75	3.7	290
11/28/2020 4:00	11/28/2020 5:00	33	36	28	43	46	39	0.0		38.2	239	5.1	268
11/28/2020 5:00	11/28/2020 6:00	35	37	30	45	48	41	0.0		38.1	463	5.6	247
11/28/2020 6:00	11/28/2020 7:00	36	38	30	46	46	40	0.0		38.2	642	6.2	256
11/28/2020 7:00	11/28/2020 8:00	36	39	31	45	47	41	0.0		38.9	582	6.2	269
11/28/2020 8:00	11/28/2020 9:00	40	40	33	51	49	42	0.0		39.3	653	6.3	259
11/28/2020 9:00	11/28/2020 10:00	42	42	33	54	53	43	0.2		41.5	445	5.6	257
11/28/2020 10:00	11/28/2020 11:00	39	41	35	49	51	45	0.8		44.7	915	6.7	274
11/28/2020 11:00	11/28/2020 12:00	38	40	36	48	50	46	0.8		45.4	1415	8.0	277
11/28/2020 12:00	11/28/2020 13:00	44	45	36	60	53	46	0.8		45.2	1213	7.5	272
11/28/2020 13:00	11/28/2020 14:00	41	41	36	53	52	46	0.7		44.9	1255	7.8	283
11/28/2020 14:00	11/28/2020 15:00	49	43	36	54	54	47	0.9		42.9	1807	9.1	298
11/28/2020 15:00	11/28/2020 16:00	52	43	36	55	53	45	0.9		42.2	623	9.1	301
11/28/2020 16:00	11/28/2020 17:00	40	41	34	53	53	46	0.7		41.1	1709	8.9	305
11/28/2020 17:00	11/28/2020 18:00	36	37	33	48	48	44	0.2		39.3	1649	8.8	299
11/28/2020 18:00	11/28/2020 19:00	39	36	31	51	49	42	0.3		38	1767	9.0	301
11/28/2020 19:00	11/28/2020 20:00	37	39	31	50	55	42	0.1		36.3	1522	8.3	297
11/28/2020 20:00	11/28/2020 21:00	33	34	29	45	46	42	0.0		36.7	1559	8.4	297
11/28/2020 21:00	11/28/2020 22:00	32	34	29	44	46	42	0.0		35.7	1459	8.4	297
11/28/2020 22:00	11/28/2020 23:00	32	35	30	43	45	41	0.0		31.3	909	7.2	282
11/28/2020 23:00	11/29/2020 0:00	33	35	30	45	47	43	0.0		30.8	1549	8.5	279
11/29/2020 0:00	11/29/2020 1:00	32	33	31	45	46	43	0.2		31	2090	9.3	278
11/29/2020 1:00	11/29/2020 2:00	32	33	30	45	46	42	0.1		34.9	2409	9.9	274
11/29/2020 2:00	11/29/2020 3:00	32	33	30	44	45	42	0.1		31.9	1612	8.5	278
11/29/2020 3:00	11/29/2020 4:00	32	34	29	45	47	42	0.0		29.3	1045	7.4	284
11/29/2020 4:00	11/29/2020 5:00	32	34	30	45	47	43	0.2		29.2	1572	8.5	294
11/29/2020 5:00	11/29/2020 6:00	32	34	30	46	48	44	0.2		30.3	1688	8.7	301
11/29/2020 6:00	11/29/2020 7:00	34	37	29	46	48	41	0.1		29.5	1252	7.9	287
11/29/2020 7:00	11/29/2020 8:00	37	39	30	49	51	41	0.0		29.4	539	6.3	270
11/29/2020 8:00	11/29/2020 9:00	35	38	31	44	46	41	0.1		33.3	-5	6.8	267
11/29/2020 9:00	11/29/2020 10:00	35	37	31	46	48	42	0.3		38	457	6.1	272
11/29/2020 10:00	11/29/2020 11:00	42	41	33	59	52	44	0.8		39.8	378	5.6	278
11/29/2020 11:00	11/29/2020 12:00	41	42	33	52	52	45	0.8		41.9	339	5.0	268
11/29/2020 12:00	11/29/2020 13:00	39	40	34	52	52	46	0.8		44.1	235	4.7	262
11/29/2020 13:00	11/29/2020 14:00	42	42	34	56	53	45	0.8		46.4	303	5.0	263
11/29/2020 14:00	11/29/2020 15:00	39	41	33	51	52	45	0.5		48.2	213	4.5	255
11/29/2020 15:00	11/29/2020 16:00	42	43	33	55	57	44	0.1		43.7	116	4.9	254
11/29/2020 16:00	11/29/2020 17:00	42	42	35	52	53	46	0.0		36.6	673	5.9	239
11/29/2020 17:00	11/29/2020 18:00	41	42	35	51	52	45	0.0		33.2	709	5.9	234
11/29/2020 18:00	11/29/2020 19:00	41	42	34	52	51	46	0.0		31.9	1154	6.8	236
11/29/2020 19:00	11/29/2020 20:00	40	43	35	51	52	47	0.0		31.7	776	6.1	234
11/29/2020 20:00	11/29/2020 21:00	37	40	32	47	50	44	0.0		30.3	686	6.0	236
11/29/2020 21:00	11/29/2020 22:00	34	37	30	44	46	42	0.0		29.4	834	6.7	246
11/29/2020 22:00	11/29/2020 23:00	35	38	31	45	47	42	0.0		28.8	615	5.9	239
11/29/2020 23:00	11/30/2020 0:00	34	36	31	49	51	44	0.0		28.3	582	5.6	222
11/30/2020 0:00	11/30/2020 1:00	34	36	31	51	54	48	0.0		28.7	363	4.6	228
11/30/2020 1:00	11/30/2020 2:00	36	39	31	48	50	44	0.0		28.8	264	4.4	236
11/30/2020 2:00	11/30/2020 3:00	35	38	30	47	49	44	0.0		28	188	4.2	228
11/30/2020 3:00	11/30/2020 4:00	38	42	30	47	50	43	0.0		27.5	37	3.4	222
11/30/2020 4:00	11/30/2020 5:00	40	43	31	48	51	43	0.0		27.8	47	3.4	162
11/30/2020 5:00	11/30/2020 6:00	40	43	32	49	52	45	0.0		28.4	-10	2.6	182
11/30/2020 6:00	11/30/2020 7:00	42	44	37	51	53	48	0.0		28.7	-9	2.1	195
11/30/2020 7:00	11/30/2020 8:00	42	43	37	53	53	48	0.0		29.6	21	2.6	150
11/30/2020 8:00	11/30/2020 9:00	39	41	35	50	52	48	0.1		31.1	20	4.3	134
11/30/2020 9:00	11/30/2020 10:00	40	42	37	54	56	50	0.1		33.2	213	4.2	131
11/30/2020 10:00	11/30/2020 11:00	42	44	37	54	55	49	0.3		33.9	403	5.5	106
12/4/2020 13:00	12/4/2020 14:00	42	43	37	52	54	48	0.7		48.2	967	6.6	252
12/4/2020 14:00	12/4/2020 15:00	46	46	36	58	58	48	0.4		48.7	499	5.3	246
12/4/2020 15:00	12/4/2020 16:00	48	43	36	58	54	46	0.0		47.9	192	4.2	234
12/4/2020 16:00	12/4/2020 17:00	37	40	33	49	50	45	0.0		41.5	0	2.6	248

Hourly Monitoring Data for Location 2 (Page 7 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.

APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/4/2020 17:00	12/4/2020 18:00	41	41	34	55	51	45	0.0		37.6	-11	2.3	304
12/4/2020 18:00	12/4/2020 19:00	41	42	36	54	51	46	0.0		34.1	20	2.8	234
12/4/2020 19:00	12/4/2020 20:00	40	43	36	48	50	46	0.0		31.6	342	4.4	224
12/4/2020 20:00	12/4/2020 21:00	42	44	34	48	51	44	0.0		30.8	434	5.4	245
12/4/2020 21:00	12/4/2020 22:00	37	38	32	47	48	44	0.0		30.8	367	5.1	244
12/4/2020 22:00	12/4/2020 23:00	34	36	32	47	49	45	0.0		33.7	523	5.5	238
12/4/2020 23:00	12/5/2020 0:00	34	35	31	47	48	43	0.0		36.7	409	5.3	251
12/5/2020 0:00	12/5/2020 1:00	36	36	30	48	46	42	0.0		35.2	827	6.4	250
12/5/2020 1:00	12/5/2020 2:00	31	32	28	44	46	41	0.0		34.5	404	5.6	258
12/5/2020 2:00	12/5/2020 3:00	32	33	29	43	45	40	0.0		34.3	86	3.8	300
12/5/2020 3:00	12/5/2020 4:00	30	33	27	43	45	39	0.0		34.4	14	2.9	233
12/5/2020 4:00	12/5/2020 5:00	33	36	27	43	45	40	0.0		34.9	60	3.5	65
12/5/2020 5:00	12/5/2020 6:00	37	41	28	47	49	41	0.0	Trace	35	131	4.2	82
12/5/2020 6:00	12/5/2020 7:00	38	40	31	48	49	43	0.0	0.07	35.2	72	3.6	98
12/5/2020 7:00	12/5/2020 8:00	43	44	40	48	50	44	0.0	0.06	35.2	62	4.0	91
12/5/2020 8:00	12/5/2020 9:00	43	44	40	48	49	45	0.0	0.11	34.7	25	3.9	71
12/5/2020 9:00	12/5/2020 10:00	40	41	35	50	52	45	0.0	0.09	33.2	212	6.6	68
12/5/2020 10:00	12/5/2020 11:00	38	38	33	50	52	46	0.0	0.14	32.8	151	6.9	58
12/5/2020 11:00	12/5/2020 12:00	40	41	34	53	53	48	0.0	0.12	32.9	1081	8.3	44
12/5/2020 12:00	12/5/2020 13:00	37	36	31	52	52	47	0.0	0.19	32.8	1591	8.9	33
12/5/2020 13:00	12/5/2020 14:00	54	58	31	64	68	47	0.0	0.13	32.9	2376	10.1	19
12/5/2020 14:00	12/5/2020 15:00	38	38	35	52	53	49	0.0	0.11	33	2569	10.6	17
12/5/2020 15:00	12/5/2020 16:00	42	44	34	61	63	50	0.0	0.09	33.2	1863	9.1	120
12/5/2020 16:00	12/5/2020 17:00	43	39	33	53	54	48	0.0	0.11	33.5	2731	11.1	351
12/5/2020 17:00	12/5/2020 18:00	40	42	34	56	58	49	0.0	0.04	33.4	3088	13.1	345
12/5/2020 18:00	12/5/2020 19:00	39	42	35	57	56	49	0.0	0.03	33.1	3101	13.6	340
12/5/2020 19:00	12/5/2020 20:00	41	44	37	57	57	51	0.1	0.02	32.8	3054	13.3	336
12/5/2020 20:00	12/5/2020 21:00	45	48	41	61	61	53	1.1	0.02	32.6	3148	15.3	331
12/5/2020 21:00	12/5/2020 22:00	52	51	42	63	63	53	1.3	Trace	31.4	3152	15.9	330
12/5/2020 22:00	12/5/2020 23:00	46	48	41	63	61	53	1.0	Trace	30.5	3140	15.9	331
12/5/2020 23:00	12/6/2020 0:00	44	46	40	58	58	52	0.8	Trace	29.7	3159	15.6	327
12/6/2020 0:00	12/6/2020 1:00	45	48	40	59	60	52	0.9	Trace	29	3161	16.2	327
12/6/2020 1:00	12/6/2020 2:00	43	45	39	62	57	51	0.9	Trace	28.4	3146	15.0	324
12/6/2020 2:00	12/6/2020 3:00	43	46	37	55	56	50	0.7		27.4	3165	14.3	317
12/6/2020 3:00	12/6/2020 4:00	45	48	39	59	59	51	1.1		26.7	3150	14.0	321
12/6/2020 4:00	12/6/2020 5:00	45	47	39	64	59	50	1.0		26.5	2910	12.1	318
12/6/2020 5:00	12/6/2020 6:00	41	44	34	56	56	49	0.6		25.9	2305	9.9	315
12/6/2020 6:00	12/6/2020 7:00	36	38	32	51	53	48	0.2		25.4	2570	10.8	314
12/6/2020 7:00	12/6/2020 8:00	41	42	35	59	54	49	0.3		25.1	3023	12.3	311
12/6/2020 8:00	12/6/2020 9:00	47	45	36	54	55	47	0.4		25.2	292	12.7	312
12/6/2020 9:00	12/6/2020 10:00	39	42	34	53	55	47	0.2		25.9	1687	10.8	314
12/6/2020 10:00	12/6/2020 11:00	45	48	39	56	57	51	0.3		26.2	2861	11.2	310
12/6/2020 11:00	12/6/2020 12:00	41	43	37	53	55	49	0.7		27.3	2934	11.9	307
12/6/2020 12:00	12/6/2020 13:00	47	45	37	55	58	49	0.9	0.01	29.3	2858	11.6	309
12/6/2020 13:00	12/6/2020 14:00	41	42	35	52	53	48	0.7		29.5	2872	11.6	306
12/6/2020 14:00	12/6/2020 15:00	41	43	36	53	55	49	0.8	0.01	31	2522	11.2	309
12/6/2020 15:00	12/6/2020 16:00	38	40	34	50	52	46	0.5		29.2	893	10.9	310
12/6/2020 16:00	12/6/2020 17:00	38	40	33	49	51	46	0.3		28	2723	11.0	302
12/6/2020 17:00	12/6/2020 18:00	41	40	33	52	52	46	0.4		27.3	2898	11.4	302
12/6/2020 18:00	12/6/2020 19:00	41	42	34	52	54	47	0.6		26.8	2855	11.3	305
12/6/2020 19:00	12/6/2020 20:00	38	40	35	50	52	47	0.8		25.9	2746	11.1	308
12/6/2020 20:00	12/6/2020 21:00	37	39	33	50	52	47	0.7		25.3	2721	10.8	310
12/6/2020 21:00	12/6/2020 22:00	36	38	33	50	52	47	0.7		24.5	2695	11.0	313
12/6/2020 22:00	12/6/2020 23:00	35	38	32	48	50	46	0.6		24.1	2615	10.5	304
12/6/2020 23:00	12/7/2020 0:00	34	36	32	47	48	44	0.6		23.3	2589	10.7	300
12/7/2020 0:00	12/7/2020 1:00	33	35	29	45	47	43	0.5		22.5	2107	9.6	300
12/7/2020 1:00	12/7/2020 2:00	40	37	31	52	53	44	0.5		22.6	1300	8.1	300
12/7/2020 2:00	12/7/2020 3:00	39	38	30	54	54	45	0.6		22.6	2419	10.0	303
12/7/2020 3:00	12/7/2020 4:00	34	36	29	48	50	45	0.7		22.7	1610	8.4	307
12/7/2020 4:00	12/7/2020 5:00	33	36	29	49	50	45	0.7		22.6	1347	8.2	313
12/7/2020 5:00	12/7/2020 6:00	33	34	29	49	52	45	0.4		21.9	1679	8.9	318
12/7/2020 6:00	12/7/2020 7:00	38	38	31	50	52	45	0.5		21.7	1080	7.8	315
12/7/2020 7:00	12/7/2020 8:00	34	35	30	49	50	45	0.3		22.1	995	7.6	320
12/7/2020 8:00	12/7/2020 9:00	38	39	32	51	53	46	0.7		22.9	1117	7.8	329
12/7/2020 9:00	12/7/2020 10:00	34	36	30	48	49	45	0.6		24.2	949	7.5	331
12/7/2020 10:00	12/7/2020 11:00	38	36	30	52	51	44	0.4		24.7	919	7.5	316
12/7/2020 11:00	12/7/2020 12:00	37	37	32	55	54	51	0.5		25.2	836	7.3	321
12/7/2020 12:00	12/7/2020 13:00	37	37	30	52	53	45	0.6		25.4	866	7.4	328
12/7/2020 13:00	12/7/2020 14:00	35	35	29	48	48	43	0.3		25.2	529	6.5	319
12/7/2020 14:00	12/7/2020 15:00	34	34	28	47	48	43	0.2		25	427	6.2	311
12/7/2020 15:00	12/7/2020 16:00	36	35	28	48	49	43	0.4		24.8	746	7.0	332
12/7/2020 16:00	12/7/2020 17:00	29	31	26	46	47	42	0.2		24.1	443	6.4	347

Hourly Monitoring Data for Location 2 (Page 8 of 13)

These levels represent total sound and not the facility specific sound. Therefore they are not appropriate for direct comparison to the project limits.











APPENDIX B

Table B-2: Hourly Monitoring Data for Location 2

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 1		
Start	End	LA <sub>eq</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>90</sub> (dBA)	LC <sub>eq</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>90</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/19/2020 17:00	12/19/2020 18:00	33	35	27	42	44	38	0.0		22.4	26	3.9	249
12/19/2020 18:00	12/19/2020 19:00	31	33	26	42	44	37	0.0		21.5	-13	1.7	196
12/19/2020 19:00	12/19/2020 20:00	31	34	26	45	51	37	0.0		20	6	2.0	247
12/19/2020 20:00	12/19/2020 21:00	29	32	23	40	41	36	0.0		18.2	2	2.4	219
12/19/2020 21:00	12/19/2020 22:00	31	33	24	41	41	36	0.0		15	-14	1.5	215
12/19/2020 22:00	12/19/2020 23:00	31	31	23	44	43	37	0.0		14.6	63	2.8	250
12/19/2020 23:00	12/20/2020 0:00	31	34	24	40	42	37	0.0		14.8	-4	2.2	242
12/20/2020 0:00	12/20/2020 1:00	29	32	23	40	42	38	0.0		15.3	87	4.4	227
12/20/2020 1:00	12/20/2020 2:00	28	30	24	42	44	39	0.0		16.6	88	3.8	232
12/20/2020 2:00	12/20/2020 3:00	28	30	22	41	43	38	0.0		17.6	17	3.5	234
12/20/2020 3:00	12/20/2020 4:00	28	31	22	44	46	40	0.0		17.8	243	5.0	228
12/20/2020 4:00	12/20/2020 5:00	30	34	23	44	46	39	0.0		17.9	309	5.1	241
12/20/2020 5:00	12/20/2020 6:00	30	32	23	42	44	40	0.0		16.5	267	5.2	235
12/20/2020 6:00	12/20/2020 7:00	32	35	25	43	45	40	0.0		14.4	23	3.1	242
12/20/2020 7:00	12/20/2020 8:00	33	36	25	47	48	42	0.0		14.5	603	5.9	231
12/20/2020 8:00	12/20/2020 9:00	36	38	27	48	50	42	0.0		17.8	178	5.6	237
12/20/2020 9:00	12/20/2020 10:00	35	38	30	46	48	43	0.0		24.1	122	4.2	227
12/20/2020 10:00	12/20/2020 11:00	38	38	32	50	50	43	0.1		25.6	134	4.2	213
12/20/2020 11:00	12/20/2020 12:00	36	39	32	48	48	43	0.2		26.7	232	4.6	217
12/20/2020 12:00	12/20/2020 13:00	35	38	30	46	49	41	0.4		28.1	187	4.3	204
12/20/2020 13:00	12/20/2020 14:00	35	37	32	44	46	40	0.3	Trace	29.2	114	4.0	202
12/20/2020 14:00	12/20/2020 15:00	36	38	32	47	52	40	0.3	Trace	30.8	179	4.5	228
12/20/2020 15:00	12/20/2020 16:00	37	38	32	44	46	40	0.1	0.01	29.2	20	4.0	214
12/20/2020 16:00	12/20/2020 17:00	35	37	30	46	47	41	0.1	0.01	28.1	33	3.4	194
12/20/2020 17:00	12/20/2020 18:00	35	37	31	48	50	44	0.0	Trace	27.8	479	5.4	212
12/20/2020 18:00	12/20/2020 19:00	36	38	33	49	51	46	0.1	Trace	27.7	649	5.9	226
12/20/2020 19:00	12/20/2020 20:00	36	38	33	47	49	45	0.2		28.5	1127	6.9	225
12/20/2020 20:00	12/20/2020 21:00	36	38	32	46	48	43	0.3		29.6	1024	6.8	237
12/20/2020 21:00	12/20/2020 22:00	33	35	29	42	44	39	0.2		31.4	540	6.0	240
12/20/2020 22:00	12/20/2020 23:00	34	37	27	44	46	36	0.2		31.5	318	5.5	239
12/20/2020 23:00	12/21/2020 0:00	30	32	24	38	40	32	0.1		31.7	266	5.4	243
12/21/2020 0:00	12/21/2020 1:00	27	30	23	35	37	33	0.0		31.7	389	5.8	243
12/21/2020 1:00	12/21/2020 2:00	29	31	23	36	38	32	0.1		31.6	388	5.7	240
12/21/2020 2:00	12/21/2020 3:00	30	33	25	38	40	34	0.1		31.9	735	6.9	254
12/21/2020 3:00	12/21/2020 4:00	29	32	23	37	39	33	0.1		30.8	551	6.4	255
12/21/2020 4:00	12/21/2020 5:00	34	37	25	40	43	33	0.0		26.2	427	5.9	256
12/21/2020 5:00	12/21/2020 6:00	35	38	27	42	45	36	0.0		23.1	201	4.9	255
12/21/2020 6:00	12/21/2020 7:00	36	39	29	46	51	37	0.0		23.7	139	5.0	259
12/21/2020 7:00	12/21/2020 8:00	35	38	29	42	44	38	0.1		22.2	111	4.8	270
12/21/2020 8:00	12/21/2020 9:00	34	37	29	44	48	37	0.1		24.9	117	5.1	277
12/21/2020 9:00	12/21/2020 10:00	34	37	29	42	43	37	0.0		30.8	36	4.1	273
12/21/2020 10:00	12/21/2020 11:00	49	44	29	55	56	38	0.1		32	26	4.1	270
12/21/2020 11:00	12/21/2020 12:00	33	35	29	40	43	37	0.1		35.1	21	3.8	288
12/21/2020 12:00	12/21/2020 13:00	33	35	28	42	43	37	0.0		36.4	-8	2.3	296
12/21/2020 13:00	12/21/2020 14:00	29	33	25	40	42	36	0.0	0.02	37.6	9	2.8	317
12/21/2020 14:00	12/21/2020 15:00	33	33	26	43	44	37	0.1	0.02	37.7	135	4.8	338
12/21/2020 15:00	12/21/2020 16:00	31	33	26	41	44	36	0.0	0.01	35.7	128	4.7	328
12/21/2020 16:00	12/21/2020 17:00	36	34	28	45	44	37	0.0		32.8	198	5.0	320
12/21/2020 17:00	12/21/2020 18:00	33	33	28	42	44	37	0.0		33.3	356	5.7	314
12/21/2020 18:00	12/21/2020 19:00	33	34	26	43	43	37	0.0		31.9	340	5.5	312
12/21/2020 19:00	12/21/2020 20:00	33	34	26	44	46	36	0.0		33.1	527	6.3	309
12/21/2020 20:00	12/21/2020 21:00	32	34	24	41	43	36	0.0		33	647	6.7	302
12/21/2020 21:00	12/21/2020 22:00	33	35	27	43	45	37	0.1		31.2	1285	8.1	295
12/21/2020 22:00	12/21/2020 23:00	36	39	27	50	54	37	0.0		31.5	1880	8.9	293
12/21/2020 23:00	12/22/2020 0:00	29	31	26	39	41	36	0.0		32.3	1738	8.8	298









APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local	Regional	Lowest Hourly	Turbine 5			Turbine 6			Turbine 7		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)	Wind at 2 meters above ground level			Precipitation (inches)	Temperature Measured at Location 5 (F)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)
11/18/2020 16:00	11/18/2020 17:00	38	41	34	50	52	48	0.0		23.6	2522	10.3	336	2157	9.3	304	-19	8.9	318
11/18/2020 17:00	11/18/2020 18:00	34	36	31	49	50	46	0.0		22.4	1626	8.4	338	1242	7.9	304	695	9.1	309
11/18/2020 18:00	11/18/2020 19:00	31	34	27	47	49	43	0.0		21	1118	7.7	347	678	6.7	314	883	7.6	317
11/18/2020 19:00	11/18/2020 20:00	30	33	24	46	48	43	0.0		19.4	653	6.8	290	404	5.9	314	695	7.0	321
11/18/2020 20:00	11/18/2020 21:00	27	28	24	45	47	42	0.0		18.8	616	6.8	345	342	5.8	311	430	6.5	315
11/18/2020 21:00	11/18/2020 22:00	30	31	26	47	48	43	0.0		15.8	716	6.9	343	435	6.1	307	753	7.4	314
11/18/2020 22:00	11/18/2020 23:00	27	29	25	45	47	42	0.0		14.6	764	7.0	336	423	6.2	299	667	7.1	307
11/18/2020 23:00	11/19/2020 0:00	26	28	24	46	48	42	0.0		13.8	561	6.4	333	302	5.9	296	486	6.6	306
11/19/2020 0:00	11/19/2020 1:00	26	28	24	46	48	42	0.0		13.1	551	6.5	328	325	6.0	295	621	7.0	303
11/19/2020 1:00	11/19/2020 2:00	22	24	20	45	48	40	0.0		12.8	282	5.3	319	79	4.6	286	261	5.6	293
11/19/2020 2:00	11/19/2020 3:00	22	23	19	44	47	38	0.0		13.2	118	4.7	329	14	3.8	284	151	4.9	297
11/19/2020 3:00	11/19/2020 4:00	23	26	20	45	48	41	0.0		16.1	329	5.8	309	172	5.3	277	312	5.8	285
11/19/2020 4:00	11/19/2020 5:00	22	24	20	42	44	38	0.0		18.7	63	4.3	266	2	3.5	246	31	4.1	245
11/19/2020 5:00	11/19/2020 6:00	24	25	21	42	44	39	0.0		19.6	28	4.0	248	-8	3.1	230	11	3.6	232
11/19/2020 6:00	11/19/2020 7:00	31	32	24	47	49	42	0.0		20.4	147	4.8	239	32	3.9	223	85	4.3	215
11/19/2020 7:00	11/19/2020 8:00	34	32	25	49	50	44	0.0		21.2	394	5.8	235	64	4.4	223	97	4.5	209
11/19/2020 8:00	11/19/2020 9:00	38	39	28	54	55	44	0.1		22.8	451	6.0	232	143	4.6	219	150	4.8	214
11/19/2020 9:00	11/19/2020 10:00	38	40	32	56	53	46	0.1		25.7	775	6.7	229	283	5.1	219	394	5.4	202
11/19/2020 10:00	11/19/2020 11:00	40	42	30	56	54	46	0.2		28.9	751	6.7	226	160	4.7	208	601	5.8	196
11/19/2020 11:00	11/19/2020 12:00	40	43	34	50	52	47	0.2		31.6	811	6.7	224	207	5.1	215	507	5.6	197
11/19/2020 12:00	11/19/2020 13:00	41	44	36	51	52	48	0.2		34.7	1136	7.4	232	163	4.8	221	436	5.5	200
11/19/2020 13:00	11/19/2020 14:00	42	45	35	52	54	49	0.3		37.3	1273	7.4	220	390	5.3	205	1113	6.9	192
11/19/2020 14:00	11/19/2020 15:00	41	44	34	52	54	49	0.3		38.2	907	6.7	219	179	4.5	199	1063	6.8	188
11/19/2020 15:00	11/19/2020 16:00	41	44	35	52	54	49	0.2		37.1	1566	8.1	222	265	5.1	210	1136	7.0	193
11/19/2020 16:00	11/19/2020 17:00	37	39	32	50	52	47	0.0		36.4	1975	9.0	234	666	6.1	218	806	6.3	209
11/19/2020 17:00	11/19/2020 18:00	41	44	35	52	54	50	0.1		36.6	3065	12.3	235	1674	8.4	219	1897	8.5	211
11/19/2020 18:00	11/19/2020 19:00	43	46	37	53	55	51	0.2		37.2	2999	12.1	240	2421	10.0	221	2273	9.3	215
11/19/2020 19:00	11/19/2020 20:00	40	43	35	52	54	50	0.2		37.3	2637	10.4	241	2260	9.4	222	2082	8.9	217
11/19/2020 20:00	11/19/2020 21:00	38	41	34	51	53	49	0.1		37.6	2508	9.9	241	1464	8.0	224	1477	7.6	218
11/19/2020 21:00	11/19/2020 22:00	38	40	34	51	53	49	0.1		38.1	2707	10.7	244	1689	8.4	226	2329	9.5	221
11/19/2020 22:00	11/19/2020 23:00	38	41	35	51	53	50	0.2		38.7	3148	12.4	249	2422	9.7	230	3171	13.1	226
11/19/2020 23:00	11/20/2020 0:00	37	39	33	51	52	49	0.1		39.5	3102	12.0	246	1701	8.3	227	2937	11.2	220
11/20/2020 0:00	11/20/2020 1:00	35	37	32	50	52	48	0.1		39.5	2612	10.0	245	959	6.8	231	1867	8.3	221
11/20/2020 1:00	11/20/2020 2:00	34	36	32	51	52	49	0.1		40	2691	10.2	250	1157	7.2	232	2644	10.1	225
11/20/2020 2:00	11/20/2020 3:00	33	35	32	51	52	49	0.0		40.6	2918	10.9	255	1664	8.2	236	2979	11.0	232
11/20/2020 3:00	11/20/2020 4:00	34	35	31	51	52	49	0.0		41.7	2822	10.7	253	1498	7.9	235	2780	10.4	229
11/20/2020 4:00	11/20/2020 5:00	35	37	32	51	52	49	0.0		42.3	3144	12.1	253	2139	9.2	233	3150	12.8	230
11/20/2020 5:00	11/20/2020 6:00	36	38	33	51	53	49	0.1		43.1	2995	11.5	251	1454	7.8	233	3155	12.2	227
11/20/2020 6:00	11/20/2020 7:00	34	36	32	50	51	47	0.0		42.9	2127	8.9	248	406	5.3	233	1733	8.1	221
11/20/2020 7:00	11/20/2020 8:00	36	37	32	51	53	47	0.0		42.9	2080	8.7	247	503	5.5	233	653	7.3	227
11/20/2020 8:00	11/20/2020 9:00	36	38	32	50	52	47	0.0	Trace	42.7	1438	7.4	248	556	5.7	233	1001	7.1	231
11/20/2020 9:00	11/20/2020 10:00	40	39	33	52	52	48	0.0	Trace	44.1	1941	8.5	252	1304	7.4	236	2249	9.9	231
11/20/2020 10:00	11/20/2020 11:00	37	40	34	50	51	47	0.0		45.5	1068	6.9	253	598	6.0	238	1105	7.0	230
11/20/2020 11:00	11/20/2020 12:00	39	39	32	50	51	48	0.0		45.1	1524	7.7	250	392	5.1	235	1738	8.1	230
11/20/2020 12:00	11/20/2020 13:00	35	37	31	49	51	46	0.0		50.3	806	6.3	250	861	6.6	232	1441	7.5	230
11/20/2020 13:00	11/20/2020 14:00	36	40	30	48	50	46	0.0		54	1033	6.8	251	720	6.2	234	932	6.6	233
11/20/2020 14:00	11/20/2020 15:00	40	41	32	52	51	45	0.1		55.5	633	5.9	250	171	4.2	243	288	4.6	225
11/20/2020 15:00	11/20/2020 16:00	36	37	30	49	50	44	0.0		54.4	791	6.6	245	515	5.6	226	696	6.0	221
11/20/2020 16:00	11/20/2020 17:00	33	33	29	48	48	44	0.0		51	874	6.6	251	252	4.4	232	652	5.8	225
11/20/2020 17:00	11/20/2020 18:00	34	34	31	48	50	45	0.0		40.8	1628	8.1	250	588	5.6	228	1526	7.6	224
11/20/2020 18:00	11/20/2020 19:00	33	34	31	49	50	47	0.0		38.5	2069	8.8	251	544	5.4	231	1787	8.1	226
11/20/2020 19:00	11/20/2020 20:00	33	34	31	49	50	47	0.0		45.4	3029	11.1	252	1419	7.5	230	3112	11.8	227
11/20/2020 20:00	11/20/2020 21:00	33	34	31	50	51	48	0.0		38.5	2543	10.3	255	1396	7.5	237	2983	11.5	232
11/20/2020 21:00	11/20/2020 22:00	37	39	34	50	52	48	0.0		39.6	3196	15.4	263	2977	11.5	241	3197	15.5	239
11/20/2020 22:00	11/20/2020 23:00	36	38	33	49	51	48	0.0		52.6	3200	16.0	262	3027	11.3	238	3200	14.7	237
11/20/2020 23:00	11/21/2020 0:00	37	40	33	50	51	48	0.0		52.1	3200	16.3	270	3064	11.8	244	3199	15.3	246
11/21/2020 0:00	11/21/2020 1:00	36	38	32	50	51	48	0.0		47.6	3198	16.2	283	3189	12.7	252	3198	15.9	258
11/21/2020 1:00	11/21/2020 2:00	33	34	31	49	51	47	0.0		46.6	2791	11.8	289	1899	9.2	263	2983	13.1	262
11/21/2020 2:00	11/21/2020 3:00	32	33	31	49	51	47	0.0		45.3	2995	11.5	289	2333	9.8	265	3158	13.0	265
11/21/2020 3:00	11/21/2020 4:00	33	35	31	50	52	48	0.0		46.2	3162	12.3	291	1989	9.1	269	3044	11.7	268
11/21/2020 4:00	11/21/2020 5:00	33	34	31	50	51	48	0.0		43.1	3127	12.0	290	1663	8.5	268	2846	11.0	268
11/21/2020 5:00	11/21/2020 6:00	35	37	32	50	52	48	0.0		40.4	3155	12.2	293	2009	9.1	270	2539	10.3	271
11/21/2020 6:00	11/21/2020 7:00	34	35	31	49	50	46	0.0		37	2622	10.5	299	1273	7.7	275	1734	8.8	275
11/21/2020 7:00	11/21/2020 8:00	35	35	31	48	48	44	0.0		36.8	2085	9.6	301	1136	7.5	275	686	7.8	278
11/21/2020 8:00	11/21/2020 9:00	36	39	31	49	51	45	0.0		39.1	1058	7.5	316	817	6.7	287	1427</		

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local	Regional	Lowest Hourly	Turbine 5			Turbine 6			Turbine 7		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)	Wind at 2 meters above ground level			Precipitation (inches)	Temperature Measured at Location 5 (F)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)
11/21/2020 16:00	11/21/2020 17:00	36	38	31	49	50	44	0.0		45.8	788	6.9	335	619	5.9	301	879	7.2	308
11/21/2020 17:00	11/21/2020 18:00	32	34	29	46	48	43	0.0		43.8	841	6.9	344	476	5.6	310	653	6.7	316
11/21/2020 18:00	11/21/2020 19:00	30	33	26	46	48	42	0.0		41.6	307	5.2	352	120	3.9	319	288	5.3	326
11/21/2020 19:00	11/21/2020 20:00	28	31	25	44	46	41	0.0		39.7	454	5.6	76	22	3.5	288	288	5.3	288
11/21/2020 20:00	11/21/2020 21:00	30	32	26	44	46	42	0.0		38.5	787	6.7	12	241	4.8	336	682	6.7	346
11/21/2020 21:00	11/21/2020 22:00	31	33	28	45	47	42	0.0		36.2	821	6.6	9	317	5.1	334	663	6.7	344
11/21/2020 22:00	11/21/2020 23:00	30	33	24	45	47	42	0.0		32.8	702	6.3	7	318	5.1	331	715	6.7	339
11/21/2020 23:00	11/22/2020 0:00	27	29	23	44	47	39	0.0		29.2	346	5.5	12	66	3.6	281	216	5.2	342
11/22/2020 0:00	11/22/2020 1:00	25	27	21	41	44	37	0.0		27.6	142	4.5	15	-10	2.0	168	53	3.8	351
11/22/2020 1:00	11/22/2020 2:00	26	28	22	43	45	39	0.0		26.5	260	5.0	28	-6	2.8	22	38	3.8	12
11/22/2020 2:00	11/22/2020 3:00	29	30	24	44	46	40	0.0		25.8	384	5.5	29	14	3.6	19	74	4.0	70
11/22/2020 3:00	11/22/2020 4:00	27	30	23	43	46	40	0.0		24.5	287	5.3	43	70	3.8	29	212	5.1	31
11/22/2020 4:00	11/22/2020 5:00	29	33	24	43	46	40	0.0		23.3	250	5.1	45	97	4.0	30	231	5.4	34
11/22/2020 5:00	11/22/2020 6:00	27	30	23	42	45	38	0.0		22.5	146	4.6	91	60	4.0	70	170	5.0	70
11/22/2020 6:00	11/22/2020 7:00	29	32	24	47	50	42	0.0		22.1	316	5.6	104	118	4.4	73	271	5.6	80
11/22/2020 7:00	11/22/2020 8:00	34	37	25	47	50	41	0.0		22.3	274	5.5	114	126	4.7	78	140	5.5	88
11/22/2020 8:00	11/22/2020 9:00	31	34	26	47	49	43	0.0		26.3	390	5.7	118	236	5.3	93	318	6.0	95
11/22/2020 9:00	11/22/2020 10:00	32	35	27	48	50	45	0.0		33	446	6.0	127	458	6.2	106	642	6.7	101
11/22/2020 10:00	11/22/2020 11:00	35	35	27	49	50	45	0.0		33	296	5.7	125	340	5.8	102	407	6.0	99
11/22/2020 11:00	11/22/2020 12:00	32	35	27	47	49	44	0.0		33.8	373	5.7	125	423	6.1	101	482	6.3	98
11/22/2020 12:00	11/22/2020 13:00	30	32	25	47	49	43	0.0		33.9	226	5.2	128	237	5.5	106	323	5.8	102
11/22/2020 13:00	11/22/2020 14:00	30	31	26	47	49	44	0.0		33.9	370	5.8	128	348	5.8	101	379	6.0	103
11/22/2020 14:00	11/22/2020 15:00	32	34	27	47	49	45	0.0	Trace	33.7	597	6.5	127	599	6.7	101	692	6.9	102
11/22/2020 15:00	11/22/2020 16:00	34	36	31	49	51	47	0.0	Trace	33.5	1028	7.4	123	779	7.1	98	1001	7.6	99
11/22/2020 16:00	11/22/2020 17:00	35	37	33	50	52	48	0.0		33.4	1288	7.7	128	882	7.3	103	1402	8.1	101
11/22/2020 17:00	11/22/2020 18:00	36	39	31	49	52	47	0.0		33.3	1063	7.2	125	636	6.5	97	911	7.2	99
11/22/2020 18:00	11/22/2020 19:00	47	49	33	52	54	49	0.0		32.5	1253	8.0	132	697	7.0	105	1026	7.7	109
11/22/2020 19:00	11/22/2020 20:00	42	47	30	51	54	48	0.0		32.4	379	8.1	134	285	6.9	104	307	7.7	108
11/22/2020 20:00	11/22/2020 21:00	30	31	20	45	49	33	0.0		31.9	-6	9.0	145	6	7.3	115	91	8.3	117
11/22/2020 21:00	11/22/2020 22:00	29	30	23	39	40	30	0.0		32.4	-5	7.0	134	-12	5.8	102	-5	6.3	104
11/22/2020 22:00	11/22/2020 23:00	31	33	28	50	52	47	0.0	0.01	32.5	976	7.2	126	195	5.5	96	410	6.6	100
11/22/2020 23:00	11/23/2020 0:00	40	43	35	52	54	50	0.0	0.01	32.3	2150	9.1	130	984	7.4	99	1640	8.6	105
11/23/2020 0:00	11/23/2020 1:00	39	41	38	52	54	50	0.0	0.02	32.9	2543	10.0	137	1288	7.9	107	2264	9.6	112
11/23/2020 1:00	11/23/2020 2:00	42	46	38	52	54	50	0.0	0.01	33.1	2217	9.3	138	1210	7.8	109	1930	8.9	111
11/23/2020 2:00	11/23/2020 3:00	44	47	40	54	56	52	0.0	Trace	33.3	2495	10.0	138	1529	8.4	109	2225	9.6	111
11/23/2020 3:00	11/23/2020 4:00	42	44	39	54	56	52	0.0	Trace	34.6	2634	10.2	139	1617	8.6	109	2234	9.5	111
11/23/2020 4:00	11/23/2020 5:00	38	39	36	51	53	49	0.0	Trace	36.6	1713	8.1	139	756	6.6	106	1191	7.4	112
11/23/2020 5:00	11/23/2020 6:00	44	50	35	51	53	48	0.0	0.04	36.9	1713	7.9	145	598	5.8	108	1147	7.0	116
11/23/2020 6:00	11/23/2020 7:00	48	52	36	51	53	46	0.0	0.01	36.9	770	6.4	159	170	4.0	116	534	5.9	129
11/23/2020 7:00	11/23/2020 8:00	47	51	39	50	53	45	0.0	0.08	37.7	585	5.8	250	317	4.8	214	554	5.6	225
11/23/2020 8:00	11/23/2020 9:00	48	51	43	50	52	47	0.0	0.22	40.9	174	4.0	299	136	4.5	320	163	4.1	285
11/23/2020 9:00	11/23/2020 10:00	47	51	39	50	52	47	0.0	0.07	41.1	391	5.2	268	92	3.6	250	385	5.2	240
11/23/2020 10:00	11/23/2020 11:00	53	55	48	54	56	52	0.0	0.13	41.6	2633	10.8	289	1850	8.9	263	2465	10.3	264
11/23/2020 11:00	11/23/2020 12:00	44	48	38	52	53	50	0.0	0.05	44	2458	10.2	308	2020	9.3	281	2550	10.5	282
11/23/2020 12:00	11/23/2020 13:00	41	44	37	53	55	51	0.1	Trace	42.1	2973	12.3	313	2751	11.6	287	3092	12.6	288
11/23/2020 13:00	11/23/2020 14:00	45	49	37	55	58	52	0.3		41.5	3157	14.2	311	3069	14.0	285	3133	13.8	283
11/23/2020 14:00	11/23/2020 15:00	43	46	39	54	55	51	0.3		40.5	3193	15.3	310	3190	14.1	282	3192	15.0	281
11/23/2020 15:00	11/23/2020 16:00	46	49	40	55	57	52	0.4		38.8	3111	15.4	312	3113	14.6	285	3113	16.6	285
11/23/2020 16:00	11/23/2020 17:00	49	52	44	56	58	53	0.5		37	3200	18.7	316	3201	18.0	290	3200	18.5	290
11/23/2020 17:00	11/23/2020 18:00	47	50	41	55	58	53	0.4		35.2	3167	16.7	316	3168	15.5	288	3174	16.5	289
11/23/2020 18:00	11/23/2020 19:00	42	44	36	53	55	51	0.1		34.4	3075	12.5	317	2784	11.7	289	3038	12.5	289
11/23/2020 19:00	11/23/2020 20:00	46	49	40	55	57	52	0.4		33.7	3192	15.4	316	3140	14.8	288	3153	15.2	288
11/23/2020 20:00	11/23/2020 21:00	46	49	40	55	57	52	0.4		33.1	3193	16.0	313	3195	14.9	285	3194	15.9	285
11/23/2020 21:00	11/23/2020 22:00	44	48	38	55	57	52	0.3		32.9	3156	15.0	317	3157	14.3	289	3172	15.2	288
11/23/2020 22:00	11/23/2020 23:00	42	45	36	54	55	51	0.1		32.2	3120	13.0	318	3096	12.5	289	3100	13.0	290
11/23/2020 23:00	11/24/2020 0:00	39	42	35	53	54	51	0.1		32.2	2857	11.7	325	2635	10.9	294	2909	11.7	294
11/24/2020 0:00	11/24/2020 1:00	37	39	35	52	53	50	0.0		32.2	3152	12.4	326	3016	11.4	295	3136	12.0	296
11/24/2020 1:00	11/24/2020 2:00	36	38	34	52	53	50	0.0		32.1	2779	10.9	325	2703	10.4	293	2815	11.1	296
11/24/2020 2:00	11/24/2020 3:00	35	37	33	50	52	48	0.0		32.1	2472	9.9	330	1816	8.7	298	2189	9.8	301
11/24/2020 3:00	11/24/2020 4:00	33	35	29	47	49	45	0.0		31.1	1054	7.3	331	772	6.9	297	994	7.6	301
11/24/2020 4:00	11/24/2020 5:00	36	37	33	50	51	47	0.0		30.7	2076	9.1	331	1412	8.2	294	2133	9.6	300
11/24/2020 5:00	11/24/2020 6:00	36	37	33	50	51	47	0.0		31.4	2113	9.3	319	1565	8.5	288	2188	9.6	291
11/24/2020 6:00	11/24/2020 7:00	38	40	35	51	53	49	0.0		32.3	2688	10.5	317	2438	10.0	289	2858	11.3	291
11/24/2020 7:00	11/24/2020 8:00	41	43	37	53	54	51	0.1		32.9	2907	11.3	329	2717	10.7	297	2598	11.2	299
11/24/2020 8:00	11/24/2020 9:00	44	47	39	54	56	52	0.2		33.1	3070	13.6	333	3066	13.0				

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LA <sub>eq</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>90</sub> (dBA)	LC <sub>eq</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>90</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/24/2020 16:00	11/24/2020 17:00	33	35	30	47	49	45	0.0		31	1069	7.5	331	979	7.3	302	1164	8.1	307
11/24/2020 17:00	11/24/2020 18:00	35	36	32	48	50	46	0.0		30.6	1426	8.0	344	1065	7.2	312	1290	8.3	318
11/24/2020 18:00	11/24/2020 19:00	30	32	26	44	46	41	0.0		28.1	311	5.5	68	138	4.2	335	226	5.5	341
11/24/2020 19:00	11/24/2020 20:00	27	31	22	41	43	37	0.0		26.6	53	4.2	25	-17	2.7	80	-10	3.0	237
11/24/2020 20:00	11/24/2020 21:00	27	29	22	43	44	38	0.0		24.5	104	4.5	11	-10	2.5	232	29	4.3	340
11/24/2020 21:00	11/24/2020 22:00	26	28	20	41	43	37	0.0		22.7	45	4.2	118	-13	3.1	339	3	4.1	332
11/24/2020 22:00	11/24/2020 23:00	28	27	21	46	46	37	0.0		22.3	60	3.9	323	15	3.8	289	52	3.9	287
11/24/2020 23:00	11/25/2020 0:00	21	24	19	38	41	30	0.0		22.1	-10	2.5	86	-14	3.1	97	-8	2.8	71
11/25/2020 0:00	11/25/2020 1:00	22	24	21	42	44	38	0.0		21.5	127	4.9	111	74	4.4	81	119	4.8	83
11/25/2020 1:00	11/25/2020 2:00	25	25	21	44	47	39	0.0		21.5	192	4.8	116	83	4.6	93	216	5.2	93
11/25/2020 2:00	11/25/2020 3:00	27	29	24	47	49	44	0.0		22.3	588	6.3	134	276	5.6	101	537	6.1	105
11/25/2020 3:00	11/25/2020 4:00	27	29	23	47	49	43	0.0		23	476	5.7	133	231	5.5	102	470	5.9	107
11/25/2020 4:00	11/25/2020 5:00	31	34	27	49	51	46	0.0		23.2	874	6.8	139	354	5.7	112	768	6.5	111
11/25/2020 5:00	11/25/2020 6:00	28	30	25	47	50	44	0.0		23.5	381	5.2	131	145	5.0	99	377	5.4	108
11/25/2020 6:00	11/25/2020 7:00	33	34	29	49	51	46	0.0		24.1	749	6.0	134	236	5.4	99	664	6.2	108
11/25/2020 7:00	11/25/2020 8:00	33	35	31	50	52	48	0.0		24.2	864	6.3	140	236	5.1	101	670	6.1	111
11/25/2020 8:00	11/25/2020 9:00	33	35	32	50	52	47	0.0		24.9	1123	7.2	153	298	5.2	112	858	6.8	123
11/25/2020 9:00	11/25/2020 10:00	34	36	32	51	53	48	0.0		26	1399	7.5	164	314	5.2	123	880	6.3	131
11/25/2020 10:00	11/25/2020 11:00	36	38	33	52	54	49	0.0		27.7	2163	8.8	175	461	5.0	143	868	6.4	146
11/25/2020 11:00	11/25/2020 12:00	39	42	33	53	55	48	0.2		29.7	2589	9.8	170	793	6.0	136	1375	7.2	137
11/25/2020 12:00	11/25/2020 13:00	33	35	31	47	49	44	0.0		31.3	1150	6.7	186	191	3.9	129	302	4.4	139
11/25/2020 13:00	11/25/2020 14:00	35	37	32	48	50	45	0.0		33.1	322	5.1	212	48	4.0	183	174	4.0	182
11/25/2020 14:00	11/25/2020 15:00	37	38	32	48	49	45	0.0		33.2	520	5.7	215	35	3.6	188	249	4.5	182
11/25/2020 15:00	11/25/2020 16:00	37	39	33	49	51	46	0.0		33	437	5.3	222	37	3.5	207	289	4.7	196
11/25/2020 16:00	11/25/2020 17:00	38	37	33	52	52	46	0.0		31.9	1519	7.7	227	304	4.8	206	842	6.0	198
11/25/2020 17:00	11/25/2020 18:00	36	38	34	50	52	48	0.0		31.4	2242	9.6	234	534	5.7	216	1160	6.8	206
11/25/2020 18:00	11/25/2020 19:00	36	37	33	50	51	47	0.0		31.1	2272	9.7	241	787	6.4	220	1385	7.3	215
11/25/2020 19:00	11/25/2020 20:00	34	35	31	47	49	44	0.0		30.9	1063	7.3	242	172	4.3	221	774	6.2	220
11/25/2020 20:00	11/25/2020 21:00	33	35	30	47	49	45	0.0		31	1334	7.9	241	516	5.9	220	1135	7.0	218
11/25/2020 21:00	11/25/2020 22:00	37	41	32	47	49	45	0.0	0.01	31.4	1254	7.8	244	631	6.3	225	1937	8.7	219
11/25/2020 22:00	11/25/2020 23:00	41	42	36	51	51	46	0.0	0.01	32.9	2005	9.2	250	975	7.1	232	2227	9.3	224
11/25/2020 23:00	11/26/2020 0:00	43	46	39	52	51	47	0.0	0.01	32.9	2381	9.8	250	1111	7.3	231	2438	9.6	225
11/26/2020 0:00	11/26/2020 1:00	37	40	32	47	49	45	0.0	Trace	33	2091	9.2	244	810	6.4	224	1991	8.7	218
11/26/2020 1:00	11/26/2020 2:00	39	43	33	49	50	46	0.0	Trace	33.1	1503	8.2	235	964	6.9	212	2054	8.2	203
11/26/2020 2:00	11/26/2020 3:00	50	52	46	51	53	48	0.0	0.08	33.2	1009	7.0	221	206	4.2	210	825	6.0	188
11/26/2020 3:00	11/26/2020 4:00	49	51	46	50	51	48	0.0	0.09	33	992	6.9	198	187	4.0	150	416	4.8	153
11/26/2020 4:00	11/26/2020 5:00	51	54	47	52	54	49	0.0	0.08	32.9	1095	6.9	172	223	4.0	124	657	5.9	136
11/26/2020 5:00	11/26/2020 6:00	53	56	49	54	56	51	0.0	0.07	32.7	579	5.6	164	103	3.6	111	390	5.1	134
11/26/2020 6:00	11/26/2020 7:00	49	53	38	51	54	48	0.0	0.23	32.9	612	5.6	169	117	3.9	106	331	5.0	134
11/26/2020 7:00	11/26/2020 8:00	45	49	38	49	52	46	0.0	0.18	32.9	484	5.3	169	70	3.5	113	233	4.9	139
11/26/2020 8:00	11/26/2020 9:00	45	47	43	48	49	46	0.0	0.06	33.3	96	3.7	150	-13	3.0	81	41	3.6	111
11/26/2020 9:00	11/26/2020 10:00	43	45	39	47	48	45	0.0	0.11	33.9	22	3.8	122	-13	3.1	58	8	3.6	78
11/26/2020 10:00	11/26/2020 11:00	46	50	40	48	51	45	0.0	0.04	35.3	0	3.3	117	-11	3.1	52	17	3.7	72
11/26/2020 11:00	11/26/2020 12:00	46	50	37	48	51	44	0.0	0.11	36.6	81	3.2	155	-12	2.4	57	19	2.8	102
11/26/2020 12:00	11/26/2020 13:00	42	46	34	46	49	43	0.0	0.01	37.5	68	3.2	169	-14	2.1	38	3	2.8	136
11/26/2020 13:00	11/26/2020 14:00	49	55	32	50	55	42	0.0	0.01	38.6	211	4.4	205	154	3.6	149	168	4.1	178
11/26/2020 14:00	11/26/2020 15:00	52	58	36	53	57	43	0.0	0.13	39	248	4.8	261	-15	2.4	258	229	4.5	236
11/26/2020 15:00	11/26/2020 16:00	35	35	32	44	46	41	0.0	0.06	39.7	-4	3.3	241	-19	1.9	257	-12	3.0	213
11/26/2020 16:00	11/26/2020 17:00	34	36	32	45	47	41	0.0	0.02	38.6	77	4.0	271	-3	2.8	283	69	3.5	241
11/26/2020 17:00	11/26/2020 18:00	35	38	31	46	48	42	0.0	0.01	38.4	368	5.3	273	98	3.5	240	326	5.0	248
11/26/2020 18:00	11/26/2020 19:00	33	35	32	46	48	42	0.0	0.01	37.4	199	4.6	278	28	3.0	238	188	4.5	249
11/26/2020 19:00	11/26/2020 20:00	33	34	31	45	47	42	0.0		34.9	662	6.3	269	315	4.6	237	832	6.9	248
11/26/2020 20:00	11/26/2020 21:00	34	35	32	44	45	42	0.0		33	1029	7.2	276	504	5.6	246	1112	7.5	253
11/26/2020 21:00	11/26/2020 22:00	35	36	33	44	46	43	0.0		31.8	1352	8.0	284	731	6.9	252	1549	8.2	261
11/26/2020 22:00	11/26/2020 23:00	35	36	34	45	47	44	0.0		31.4	2427	10.0	284	1304	7.5	260	2569	10.3	261
11/26/2020 23:00	11/27/2020 0:00	35	36	34	47	48	45	0.0		31.4	2793	10.6	283	2123	9.5	261	3161	11.6	261
11/27/2020 0:00	11/27/2020 1:00	34	35	34	47	48	45	0.0	0.01	32.9	2302	9.8	287	1625	8.7	263	2840	10.9	265
11/27/2020 1:00	11/27/2020 2:00	34	35	33	46	47	44	0.0		37.8	1601	8.4	291	1414	8.4	267	2122	9.4	270
11/27/2020 2:00	11/27/2020 3:00	34	35	33	46	48	44	0.0		37.3	2047	9.3	291	1545	8.4	266	2720	10.6	269
11/27/2020 3:00	11/27/2020 4:00	34	35	32	46	47	44	0.0		41.2	2089	9.4	291	1760	9.1	261	2716	10.5	267
11/27/2020 4:00	11/27/2020 5:00	34	36	33	46	48	45	0.0		41.2	1652	8.5	292	1277	7.9	267	2319	9.8	271
11/27/2020 5:00	11/27/2020 6:00	34	35	32	45	46	42	0.0		38	1413	8.1	299	813	6.5	272	1393	8.0	273
11/27/2020 6:00	11/27/2020 7:00	35	37	32	46	48	43	0.0		35.8	1143	7.7	300	464	5.4	274	987	7.3	275
11/27/2020 7:00	11/27/2020 8:00	36	37	34	47	48	43	0.0		35.5	1150	7.6	302	571	5.8	272	812	8.2	278
11/27/2020 8:00	11/27/2020 9:00	36	37	33	47	48	43	0.0		37	1393								

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/27/2020 16:00	11/27/2020 17:00	33	35	31	46	48	43	0.0	45.9	459	5.8	331	118	4.1	299	245	5.0	300	
11/27/2020 17:00	11/27/2020 18:00	33	34	28	47	48	43	0.0	42.9	543	6.0	316	209	4.7	285	439	5.8	288	
11/27/2020 18:00	11/27/2020 19:00	30	31	28	44	46	41	0.0	42	596	6.4	298	264	5.1	277	519	6.3	275	
11/27/2020 19:00	11/27/2020 20:00	30	32	27	44	47	41	0.0	41	198	4.7	331	116	4.2	305	216	5.1	306	
11/27/2020 20:00	11/27/2020 21:00	28	30	25	43	46	39	0.0	39.7	135	4.3	331	41	3.6	300	84	4.3	303	
11/27/2020 21:00	11/27/2020 22:00	29	32	26	44	47	41	0.0	39.4	531	6.1	321	124	4.2	291	325	5.4	297	
11/27/2020 22:00	11/27/2020 23:00	31	33	29	45	47	43	0.0	39.4	980	7.2	325	419	5.4	293	766	6.9	298	
11/27/2020 23:00	11/28/2020 0:00	29	32	27	44	47	41	0.0	39.3	628	6.4	323	295	5.2	294	543	6.3	300	
11/28/2020 0:00	11/28/2020 1:00	28	30	27	44	46	42	0.0	39.8	736	6.8	311	399	5.8	284	700	6.8	288	
11/28/2020 1:00	11/28/2020 2:00	27	28	25	44	46	40	0.0	39.5	480	5.9	305	155	4.6	274	392	5.8	281	
11/28/2020 2:00	11/28/2020 3:00	27	28	25	44	47	39	0.0	38.9	207	4.8	320	37	3.4	283	173	4.8	293	
11/28/2020 3:00	11/28/2020 4:00	25	27	24	43	47	38	0.0	38.4	93	4.1	306	77	3.9	267	119	4.3	282	
11/28/2020 4:00	11/28/2020 5:00	26	28	23	45	48	39	0.0	38.2	242	5.3	279	153	4.7	251	262	5.3	253	
11/28/2020 5:00	11/28/2020 6:00	28	29	26	44	46	41	0.0	38.1	442	6.0	261	201	4.5	234	540	6.2	237	
11/28/2020 6:00	11/28/2020 7:00	34	31	27	47	48	42	0.0	38.2	644	6.5	271	275	5.0	244	669	6.6	247	
11/28/2020 7:00	11/28/2020 8:00	31	33	27	45	47	42	0.0	38.9	678	6.6	277	301	5.1	249	602	6.2	247	
11/28/2020 8:00	11/28/2020 9:00	34	36	29	46	48	43	0.0	39.3	584	6.1	266	210	4.7	240	596	6.2	243	
11/28/2020 9:00	11/28/2020 10:00	34	37	28	47	49	43	0.0	41.5	498	6.0	273	507	5.8	251	640	6.3	251	
11/28/2020 10:00	11/28/2020 11:00	36	39	32	48	50	45	0.0	44.7	996	7.4	282	902	6.9	258	1213	7.7	255	
11/28/2020 11:00	11/28/2020 12:00	38	41	33	49	51	47	0.0	45.4	1334	8.1	282	1271	7.9	259	1843	8.9	254	
11/28/2020 12:00	11/28/2020 13:00	43	44	33	50	52	47	0.0	45.2	1433	8.1	282	1106	7.5	260	1471	8.3	257	
11/28/2020 13:00	11/28/2020 14:00	36	38	32	49	51	46	0.0	44.9	1728	8.7	294	1297	7.8	273	1387	8.2	273	
11/28/2020 14:00	11/28/2020 15:00	39	42	34	51	53	48	0.0	42.9	2142	9.8	306	2127	9.6	280	2323	10.2	281	
11/28/2020 15:00	11/28/2020 16:00	41	40	34	52	53	48	0.0	42.2	2370	10.2	306	1904	9.2	281	2282	10.0	281	
11/28/2020 16:00	11/28/2020 17:00	38	41	34	51	53	48	0.0	41.1	2584	10.6	313	2212	9.7	287	2400	10.4	287	
11/28/2020 17:00	11/28/2020 18:00	34	36	32	48	50	46	0.0	39.3	2133	9.5	308	1373	8.1	281	1791	9.0	282	
11/28/2020 18:00	11/28/2020 19:00	34	35	32	47	48	45	0.0	38	2552	10.3	310	1516	8.4	282	2493	10.3	286	
11/28/2020 19:00	11/28/2020 20:00	33	35	32	46	48	44	0.0	36.3	2049	9.4	308	1090	7.5	279	1939	9.4	284	
11/28/2020 20:00	11/28/2020 21:00	33	34	31	47	48	45	0.0	36.7	2583	10.4	310	1669	8.8	280	2615	10.6	284	
11/28/2020 21:00	11/28/2020 22:00	32	34	31	45	47	43	0.0	35.7	2302	10.0	306	1774	9.2	278	2407	10.2	281	
11/28/2020 22:00	11/28/2020 23:00	31	32	29	45	47	43	0.0	31.3	1383	8.3	295	1033	7.7	268	1542	8.7	271	
11/28/2020 23:00	11/29/2020 0:00	32	33	31	46	48	45	0.0	30.8	2403	10.1	292	1739	9.1	264	2485	10.3	267	
11/29/2020 0:00	11/29/2020 1:00	33	35	32	47	48	45	0.0	31	2967	11.2	289	2240	9.7	261	3052	11.3	263	
11/29/2020 1:00	11/29/2020 2:00	33	34	31	48	49	46	0.0	34.9	3143	11.9	284	2346	9.7	258	3197	12.3	259	
11/29/2020 2:00	11/29/2020 3:00	33	34	31	46	47	44	0.0	31.9	2338	9.8	285	1583	8.4	257	2190	9.5	259	
11/29/2020 3:00	11/29/2020 4:00	33	34	31	48	50	46	0.0	29.3	1632	8.3	293	1013	7.4	267	1664	8.6	267	
11/29/2020 4:00	11/29/2020 5:00	33	35	32	48	49	46	0.0	29.2	2393	9.7	305	1519	8.4	279	1949	9.2	282	
11/29/2020 5:00	11/29/2020 6:00	34	35	33	48	49	46	0.0	30.3	2849	10.8	314	1530	8.4	283	2241	9.6	288	
11/29/2020 6:00	11/29/2020 7:00	33	34	30	47	49	44	0.0	29.5	1507	8.3	299	1103	7.9	269	1741	8.8	276	
11/29/2020 7:00	11/29/2020 8:00	36	36	30	51	53	44	0.0	29.4	1004	7.5	286	784	7.1	260	946	8.0	265	
11/29/2020 8:00	11/29/2020 9:00	36	35	28	48	48	43	0.0	33.3	751	6.9	273	332	5.5	249	356	6.5	251	
11/29/2020 9:00	11/29/2020 10:00	35	36	31	48	49	45	0.0	38	732	7.0	278	838	7.0	254	1028	7.4	255	
11/29/2020 10:00	11/29/2020 11:00	38	39	31	50	50	45	0.0	39.8	653	6.6	279	935	7.2	255	1265	8.0	256	
11/29/2020 11:00	11/29/2020 12:00	37	40	29	49	50	45	0.0	41.9	401	5.8	271	396	5.7	254	726	6.7	250	
11/29/2020 12:00	11/29/2020 13:00	37	40	31	50	50	45	0.0	44.1	481	6.0	270	356	5.6	257	584	6.2	253	
11/29/2020 13:00	11/29/2020 14:00	36	39	28	49	50	43	0.0	46.4	200	4.9	273	135	4.3	257	105	4.3	255	
11/29/2020 14:00	11/29/2020 15:00	31	34	24	46	48	42	0.0	48.2	116	4.3	263	44	3.7	250	63	4.0	240	
11/29/2020 15:00	11/29/2020 16:00	39	38	24	53	52	42	0.0	43.7	354	5.6	254	197	4.8	237	270	5.1	230	
11/29/2020 16:00	11/29/2020 17:00	38	33	28	51	49	44	0.0	36.6	902	7.0	251	449	5.7	230	1232	7.5	224	
11/29/2020 17:00	11/29/2020 18:00	35	33	28	48	49	44	0.0	33.2	975	7.1	245	369	5.2	222	1496	8.1	220	
11/29/2020 18:00	11/29/2020 19:00	33	34	30	47	49	45	0.0	31.9	1812	8.7	248	703	6.2	228	2395	9.7	224	
11/29/2020 19:00	11/29/2020 20:00	34	33	30	48	49	45	0.0	31.7	1686	8.3	241	818	6.5	221	2113	8.7	214	
11/29/2020 20:00	11/29/2020 21:00	32	34	30	47	49	44	0.0	30.3	1655	8.8	249	1334	8.1	226	2574	10.0	222	
11/29/2020 21:00	11/29/2020 22:00	31	33	27	45	47	42	0.0	29.4	1523	8.6	259	711	6.3	232	1715	9.0	237	
11/29/2020 22:00	11/29/2020 23:00	27	29	24	44	46	41	0.0	28.8	683	6.3	245	247	4.8	224	870	6.8	224	
11/29/2020 23:00	11/30/2020 0:00	31	33	25	48	51	42	0.0	28.3	1682	8.3	233	683	5.8	214	1181	6.9	206	
11/30/2020 0:00	11/30/2020 1:00	33	34	31	50	52	48	0.0	28.7	2773	10.9	239	2344	9.6	218	2844	10.6	211	
11/30/2020 1:00	11/30/2020 2:00	31	33	26	47	49	43	0.0	28.8	1540	8.4	242	1189	7.6	222	2128	9.0	218	
11/30/2020 2:00	11/30/2020 3:00	29	31	27	45	47	42	0.0	28	1174	7.7	241	671	6.2	220	841	6.1	214	
11/30/2020 3:00	11/30/2020 4:00	30	32	25	46	48	42	0.0	27.5	704	6.2	223	152	4.2	202	514	5.1	192	
11/30/2020 4:00	11/30/2020 5:00	32	34	26	46	49	43	0.0	27.8	538	6.0	170	191	4.6	131	236	4.4	136	
11/30/2020 5:00	11/30/2020 6:00	34	37	29	47	49	45	0.0	28.4	915	6.6	175	129	3.8	127	343	5.2	142	
11/30/2020 6:00	11/30/2020 7:00	37	39	33	49	51	47	0.0	28.7	1261	7.1	175	240	4.2	142	334	5.1	149	
11/30/2020 7:00	11/30/2020 8:00	39	39	33	50	52	47	0.0	29.6	920	6.7	162	168	3.9	128	473	6.5	137	
11/30/2020 8:00	11/30/2020 9:00	37	38	32	50	52	47	0.0	31.1	1126	6.8	152	159	4.1	107	391	6.8	131	
11/30/2020 9:00	11/30/2020 10:00	38	39	36	54	56	51	0.0	33.2	1885	8.3	147	471	5.1	111	1369	7.4	119	
11/30/2020 10:00	11/30/2020 11:00	38	42	33	51	53	48</												

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/4/2020 19:00	12/4/2020 20:00	30	32	28	46	47	43	0.0		31.6	1082	7.5	235	593	5.6	212	1039	6.5	204
12/4/2020 20:00	12/4/2020 21:00	29	30	27	45	47	43	0.0		30.8	764	6.5	246	337	4.8	230	488	5.4	219
12/4/2020 21:00	12/4/2020 22:00	28	29	26	44	46	42	0.0		30.8	558	5.9	243	154	4.1	227	604	5.7	218
12/4/2020 22:00	12/4/2020 23:00	29	31	27	46	48	43	0.0		33.7	1201	7.5	241	490	5.4	222	1039	6.7	216
12/4/2020 23:00	12/5/2020 0:00	32	29	26	48	49	42	0.0		36.7	520	5.7	257	109	3.7	240	302	4.8	231
12/5/2020 0:00	12/5/2020 1:00	28	29	26	45	47	42	0.0		35.2	747	6.5	258	313	5.1	239	727	6.4	233
12/5/2020 1:00	12/5/2020 2:00	26	27	25	45	47	41	0.0		34.5	425	6.1	270	222	4.8	242	489	6.2	248
12/5/2020 2:00	12/5/2020 3:00	28	29	25	45	47	41	0.0		34.3	272	5.0	324	94	3.6	278	243	5.1	291
12/5/2020 3:00	12/5/2020 4:00	28	29	25	43	46	39	0.0		34.4	288	4.8	185	47	2.9	275	189	4.4	276
12/5/2020 4:00	12/5/2020 5:00	32	30	25	43	46	40	0.0		34.9	100	3.8	61	80	3.6	48	175	4.5	39
12/5/2020 5:00	12/5/2020 6:00	28	34	26	46	48	43	0.0	Trace	35	337	5.1	90	180	4.5	61	349	5.7	65
12/5/2020 6:00	12/5/2020 7:00	41	45	29	51	50	45	0.0	0.07	35.2	409	5.5	103	117	4.3	80	304	5.4	81
12/5/2020 7:00	12/5/2020 8:00	46	48	43	50	51	46	0.0	0.06	35.2	233	5.1	94	114	4.5	71	152	4.9	74
12/5/2020 8:00	12/5/2020 9:00	42	44	37	47	49	45	0.0	0.11	34.7	56	3.9	72	73	4.1	49	167	5.3	52
12/5/2020 9:00	12/5/2020 10:00	36	35	33	50	51	46	0.0	0.09	33.2	191	4.9	59	138	5.5	43	315	7.8	43
12/5/2020 10:00	12/5/2020 11:00	36	38	33	51	53	48	0.0	0.14	32.8	1041	7.4	49	127	6.8	31	1311	8.4	34
12/5/2020 11:00	12/5/2020 12:00	37	39	34	53	54	50	0.0	0.12	32.9	1785	8.9	40	198	5.8	21	2187	9.5	22
12/5/2020 12:00	12/5/2020 13:00	36	38	32	52	54	49	0.0	0.19	32.8	2412	9.9	31	146	5.2	71	1592	8.4	72
12/5/2020 13:00	12/5/2020 14:00	33	35	31	50	52	48	0.0	0.13	32.9	2915	11.6	17	249	6.2	349	2304	9.8	351
12/5/2020 14:00	12/5/2020 15:00	32	34	30	50	52	48	0.0	0.11	33	3144	12.7	14	459	7.7	346	2912	11.5	347
12/5/2020 15:00	12/5/2020 16:00	35	35	31	51	53	49	0.0	0.09	33.2	3162	12.8	241	1736	9.2	327	2982	11.5	331
12/5/2020 16:00	12/5/2020 17:00	37	39	33	52	54	50	0.0	0.11	33.5	3193	14.8	357	2663	10.9	322	3158	13.7	326
12/5/2020 17:00	12/5/2020 18:00	39	40	35	53	54	50	0.0	0.04	33.4	3200	15.9	350	3078	13.4	317	3188	15.3	319
12/5/2020 18:00	12/5/2020 19:00	42	43	36	53	55	51	0.0	0.03	33.1	3186	16.7	346	3104	13.2	311	3179	15.7	313
12/5/2020 19:00	12/5/2020 20:00	42	45	37	54	56	52	0.0	0.02	32.8	3191	17.4	341	3179	15.7	308	3199	17.0	310
12/5/2020 20:00	12/5/2020 21:00	46	48	40	56	58	53	0.0	0.02	32.6	3193	19.7	339	3173	17.9	307	3201	19.3	308
12/5/2020 21:00	12/5/2020 22:00	45	48	40	56	58	53	0.0	Trace	31.4	3195	19.9	339	3158	18.4	307	3197	19.7	308
12/5/2020 22:00	12/5/2020 23:00	45	48	40	56	58	53	0.0	Trace	30.5	3172	18.9	339	3124	17.7	308	3155	18.6	307
12/5/2020 23:00	12/6/2020 0:00	42	44	37	54	56	52	0.0	Trace	29.7	3199	17.8	333	3186	14.9	300	3187	16.8	300
12/6/2020 0:00	12/6/2020 1:00	40	43	36	54	55	51	0.0	Trace	29	3196	17.9	332	3156	14.2	299	3194	15.9	299
12/6/2020 1:00	12/6/2020 2:00	39	42	35	53	55	51	0.0	Trace	28.4	3197	16.4	331	3178	14.1	299	3172	15.0	298
12/6/2020 2:00	12/6/2020 3:00	38	41	34	52	54	50	0.0		27.4	3195	16.3	324	3187	15.1	294	3200	15.7	292
12/6/2020 3:00	12/6/2020 4:00	38	41	33	52	53	49	0.0		26.7	3200	16.3	325	3198	15.5	294	3200	15.9	295
12/6/2020 4:00	12/6/2020 5:00	36	39	32	51	53	49	0.0		26.5	3165	14.7	324	3147	14.0	294	3175	14.5	294
12/6/2020 5:00	12/6/2020 6:00	36	39	32	52	54	50	0.0		25.9	2988	11.9	321	3008	11.8	291	3067	12.5	291
12/6/2020 6:00	12/6/2020 7:00	36	39	32	52	54	50	0.0		25.4	3106	13.0	322	3075	12.6	294	3132	13.2	294
12/6/2020 7:00	12/6/2020 8:00	38	41	33	52	54	50	0.0		25.1	3163	14.2	319	3183	14.4	291	2731	15.1	291
12/6/2020 8:00	12/6/2020 9:00	38	41	34	52	54	50	0.0		25.2	3183	15.7	315	3181	14.7	286	1215	16.5	289
12/6/2020 9:00	12/6/2020 10:00	39	42	33	54	56	50	0.0		25.9	3159	14.0	315	3146	13.5	289	3159	14.4	287
12/6/2020 10:00	12/6/2020 11:00	38	41	33	53	55	51	0.0		26.2	3181	13.9	314	3121	12.9	290	3168	14.3	288
12/6/2020 11:00	12/6/2020 12:00	39	42	34	53	55	51	0.0		27.3	3186	14.4	312	3188	13.9	285	3196	15.6	286
12/6/2020 12:00	12/6/2020 13:00	38	41	33	53	55	51	0.0	0.01	29.3	3175	13.9	312	3115	12.6	285	3189	14.2	284
12/6/2020 13:00	12/6/2020 14:00	40	42	33	53	55	50	0.0		29.5	3164	14.6	314	3158	13.4	287	3189	14.5	286
12/6/2020 14:00	12/6/2020 15:00	41	42	34	54	54	50	0.0	0.01	31	3198	15.2	315	3193	13.9	288	3197	15.1	288
12/6/2020 15:00	12/6/2020 16:00	36	38	32	51	53	48	0.0		29.2	3061	12.5	313	2947	11.6	286	3076	12.8	286
12/6/2020 16:00	12/6/2020 17:00	35	38	31	50	51	47	0.0		28	3127	12.7	309	3065	11.7	281	3174	12.7	281
12/6/2020 17:00	12/6/2020 18:00	34	36	31	50	52	48	0.0		27.3	3144	12.2	309	3106	11.8	281	3193	13.1	281
12/6/2020 18:00	12/6/2020 19:00	35	37	32	51	53	49	0.0		26.8	3163	12.7	309	3138	12.4	281	3186	13.3	282
12/6/2020 19:00	12/6/2020 20:00	34	36	31	51	53	49	0.0		25.9	3091	12.2	313	2984	11.5	284	3148	12.5	282
12/6/2020 20:00	12/6/2020 21:00	34	36	31	51	53	49	0.0		25.3	3143	12.8	317	2911	11.3	289	3093	12.1	288
12/6/2020 21:00	12/6/2020 22:00	34	36	32	50	52	48	0.0		24.5	3137	12.6	315	2979	11.7	287	3122	12.5	287
12/6/2020 22:00	12/6/2020 23:00	34	36	31	49	51	47	0.0		24.1	3190	12.9	314	3118	12.2	287	3168	12.8	288
12/6/2020 23:00	12/7/2020 0:00	32	34	30	47	49	45	0.0		23.3	3165	12.0	306	3030	11.3	278	3177	12.2	279
12/7/2020 0:00	12/7/2020 1:00	31	33	29	46	48	44	0.0		22.5	3100	11.6	308	2841	11.0	281	3188	12.1	283
12/7/2020 1:00	12/7/2020 2:00	32	33	29	48	49	45	0.0		22.6	3043	11.2	308	2876	10.9	282	3181	12.3	285
12/7/2020 2:00	12/7/2020 3:00	32	33	30	49	50	46	0.0		22.6	3168	12.0	315	2892	10.8	287	3135	11.8	288
12/7/2020 3:00	12/7/2020 4:00	33	35	31	50	52	48	0.0		22.7	2951	10.7	317	2500	10.0	288	2995	11.3	290
12/7/2020 4:00	12/7/2020 5:00	33	35	31	50	52	48	0.0		22.6	2947	10.9	319	2623	10.3	290	3034	11.5	290
12/7/2020 5:00	12/7/2020 6:00	33	35	31	48	50	46	0.0		21.9	2837	10.9	322	2419	10.0	292	3029	11.4	293
12/7/2020 6:00	12/7/2020 7:00	33	35	31	48	50	46	0.0		21.7	2386	9.9	322	2024	9.3	291	2536	10.3	294
12/7/2020 7:00	12/7/2020 8:00	34	37	32	49	51	47	0.0		22.1	2289	9.8	329	1747	8.9	295	2282	9.9	300
12/7/2020 8:00	12/7/2020 9:00	38	38	33	52	54	48	0.0		22.9	2083	9.2	335	1879	8.9	303	2023	9.5	305
12/7/2020 9:00	12/7/2020 10:00	35	37	32	49	51	46	0.0		24.2	1822	8.8	335	1558	8.3	302	1857	9.4	306
12/7/2020 10:00	12/7/2020 11:00	34	37	31	49	51	46	0.0		24.7	1470	8.5	319	1567	8.6	290	1685	9.1	293
12/7/2020 11:00	12/7/2020 12:00	33	35	29	47	49	45	0.0		25.2	1622	8.7</							

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LA <sub>EQ</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>EQ</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/7/2020 19:00	12/7/2020 20:00	29	31	25	43	45	41	0.0		22.3	750	7.0	351	484	6.2	316	636	7.0	323
12/7/2020 20:00	12/7/2020 21:00	29	31	26	43	45	41	0.0		22.4	821	7.0	355	436	5.7	318	714	7.0	327
12/7/2020 21:00	12/7/2020 22:00	28	29	24	43	45	41	0.0		22.4	546	6.5	181	264	5.1	324	480	6.4	330
12/7/2020 22:00	12/7/2020 23:00	27	28	24	46	48	43	0.0		22.3	248	6.1	347	201	5.4	313	310	6.9	322
12/7/2020 23:00	12/8/2020 0:00	32	28	21	45	45	38	0.0		21.9	154	6.5	351	186	5.9	317	-5	7.3	331
12/8/2020 0:00	12/8/2020 1:00	23	25	20	41	43	37	0.0		21.8	-11	6.5	353	161	5.8	316	21	7.0	326
12/8/2020 1:00	12/8/2020 2:00	24	26	21	40	42	36	0.0		21.8	-18	6.1	295	-12	5.8	327	60	6.7	330
12/8/2020 2:00	12/8/2020 3:00	24	26	21	38	40	35	0.0		22	56	6.1	294	-12	5.9	325	-6	6.4	328
12/8/2020 3:00	12/8/2020 4:00	26	29	22	41	44	37	0.0		21.6	-14	7.5	355	100	7.2	321	98	7.7	325
12/8/2020 4:00	12/8/2020 5:00	28	31	23	40	42	37	0.0		21	15	8.5	357	-11	7.5	325	-6	8.3	326
12/8/2020 5:00	12/8/2020 6:00	32	34	25	46	48	39	0.0		20.9	26	8.0	355	79	7.1	321	76	8.0	324
12/8/2020 6:00	12/8/2020 7:00	34	35	27	49	48	42	0.0		21.1	97	7.4	355	159	6.2	318	148	7.4	323
12/8/2020 7:00	12/8/2020 8:00	34	34	27	47	48	41	0.0		21.4	-11	7.2	356	-12	6.2	322	-6	7.1	324
12/8/2020 8:00	12/8/2020 9:00	36	36	28	51	51	41	0.0		21.8	15	7.8	298	7	6.9	325	57	7.7	326
12/8/2020 9:00	12/8/2020 10:00	32	34	28	46	49	43	0.0		22.4	121	7.4	354	177	6.7	320	188	7.9	326
12/8/2020 10:00	12/8/2020 11:00	35	40	27	48	52	41	0.0		23.3	282	8.4	349	190	8.2	319	90	8.0	321
12/8/2020 11:00	12/8/2020 12:00	37	41	29	49	53	42	0.0		24.2	326	9.1	350	233	8.8	320	269	8.3	322
12/8/2020 12:00	12/8/2020 13:00	38	42	32	50	53	44	0.0		24.6	718	9.2	345	443	8.8	314	396	9.7	317
12/8/2020 13:00	12/8/2020 14:00	38	41	33	50	53	45	0.0		24.7	609	8.8	343	863	8.9	308	1446	10.0	314
12/8/2020 14:00	12/8/2020 15:00	38	40	35	50	52	48	0.0		24.3	1568	9.3	348	1020	7.9	312	2078	9.8	317
12/8/2020 15:00	12/8/2020 16:00	37	39	32	49	50	46	0.0		24.1	1685	8.9	349	725	7.1	315	1122	8.1	318
12/8/2020 16:00	12/8/2020 17:00	35	37	32	48	50	46	0.0		22.9	1641	9.4	345	1152	7.9	310	1621	9.1	315
12/8/2020 17:00	12/8/2020 18:00	36	38	34	50	51	48	0.0		23	2685	10.7	343	1598	8.6	311	2146	9.9	313
12/8/2020 18:00	12/8/2020 19:00	36	38	34	49	51	47	0.0		22.4	2259	9.7	338	1816	8.9	305	2440	10.4	310
12/8/2020 19:00	12/8/2020 20:00	38	38	32	51	51	46	0.0		22.5	2072	9.4	329	1813	9.0	300	2272	10.0	303
12/8/2020 20:00	12/8/2020 21:00	35	37	33	50	51	47	0.0		22.7	2095	9.5	328	1794	9.0	297	2396	10.3	300
12/8/2020 21:00	12/8/2020 22:00	35	37	33	49	51	47	0.0		22.8	1916	9.0	328	1590	8.6	296	2266	10.0	300
12/8/2020 22:00	12/8/2020 23:00	35	37	28	48	50	45	0.0		22.9	1589	8.6	333	1314	8.1	301	1562	8.9	304
12/8/2020 23:00	12/9/2020 0:00	31	34	27	45	47	42	0.0		22.7	1065	7.6	334	715	7.0	302	1089	8.0	306
12/9/2020 0:00	12/9/2020 1:00	32	34	28	45	47	43	0.0		22.9	1172	7.9	326	992	7.5	295	1367	8.5	296
12/9/2020 1:00	12/9/2020 2:00	31	34	28	45	47	43	0.0		22.6	1213	8.1	317	1001	7.7	288	1295	8.4	290
12/9/2020 2:00	12/9/2020 3:00	29	32	23	44	46	41	0.0		21.9	863	7.4	317	787	7.3	288	972	7.8	291
12/9/2020 3:00	12/9/2020 4:00	27	30	21	42	44	40	0.0		21.2	792	7.0	312	705	6.9	281	982	7.5	285
12/9/2020 4:00	12/9/2020 5:00	30	32	28	44	46	42	0.0		21.7	1294	8.2	313	941	7.7	282	1515	8.7	286
12/9/2020 5:00	12/9/2020 6:00	30	32	27	45	46	43	0.0		22	1028	7.6	307	698	7.1	276	1169	8.0	279
12/9/2020 6:00	12/9/2020 7:00	33	35	29	46	48	44	0.0		22.3	1188	7.8	302	946	7.6	272	1437	8.2	276
12/9/2020 7:00	12/9/2020 8:00	33	35	27	48	51	43	0.0		22.2	692	6.5	290	553	6.6	265	740	7.1	270
12/9/2020 8:00	12/9/2020 9:00	34	36	26	48	50	43	0.0		23.3	673	6.6	285	522	6.4	254	222	7.6	267
12/9/2020 9:00	12/9/2020 10:00	34	32	26	49	48	43	0.0	Trace	26.5	653	6.6	256	242	5.1	236	585	6.4	235
12/9/2020 10:00	12/9/2020 11:00	30	31	23	46	47	42	0.0	Trace	27	276	5.1	243	16	3.5	231	56	3.8	222
12/9/2020 11:00	12/9/2020 12:00	29	31	23	45	47	42	0.0	Trace	29.6	284	5.4	261	265	5.3	248	673	6.3	237
12/9/2020 12:00	12/9/2020 13:00	32	34	29	46	47	44	0.0	Trace	30.2	696	6.8	256	545	6.4	241	1411	8.1	233
12/9/2020 13:00	12/9/2020 14:00	32	33	28	46	47	43	0.0	Trace	30.8	872	7.2	261	574	6.5	243	1153	7.8	238
12/9/2020 14:00	12/9/2020 15:00	32	31	25	46	47	43	0.0	0.01	31.4	693	6.7	260	374	5.8	242	676	6.7	236
12/9/2020 15:00	12/9/2020 16:00	29	30	23	45	47	42	0.0	Trace	30.8	508	6.3	256	297	5.5	237	468	6.0	231
12/9/2020 16:00	12/9/2020 17:00	28	30	24	44	46	42	0.0	Trace	29.4	539	6.3	262	340	5.8	243	650	6.7	237
12/9/2020 17:00	12/9/2020 18:00	30	31	25	45	46	42	0.0	Trace	28.4	953	7.3	269	590	6.6	249	938	7.4	245
12/9/2020 18:00	12/9/2020 19:00	31	33	28	44	46	42	0.0		28.1	1207	8.0	276	918	7.5	254	1327	8.2	253
12/9/2020 19:00	12/9/2020 20:00	32	34	30	45	47	43	0.0		30.1	1884	9.1	281	1202	7.9	256	2002	9.1	255
12/9/2020 20:00	12/9/2020 21:00	30	32	25	43	45	41	0.0		30	1700	8.8	286	1223	7.8	254	1870	9.2	260
12/9/2020 21:00	12/9/2020 22:00	27	28	25	42	43	39	0.0		28.1	767	6.8	287	729	7.2	259	1439	8.4	270
12/9/2020 22:00	12/9/2020 23:00	29	31	25	43	45	40	0.0		28.2	1224	7.9	286	1099	8.0	256	1786	9.1	268
12/9/2020 23:00	12/10/2020 0:00	30	32	28	45	47	42	0.0		29	1540	8.4	292	1438	8.7	265	2094	9.6	272
12/10/2020 0:00	12/10/2020 1:00	33	35	29	45	46	43	0.0		29.7	2275	9.5	293	1967	9.3	267	2689	10.3	272
12/10/2020 1:00	12/10/2020 2:00	31	33	29	45	46	42	0.0		30.8	2331	9.6	298	1821	9.0	269	2894	10.9	275
12/10/2020 2:00	12/10/2020 3:00	29	31	26	43	45	41	0.0		32.2	1185	7.5	297	631	6.3	268	1387	7.9	271
12/10/2020 3:00	12/10/2020 4:00	31	32	28	44	46	42	0.0		32	2414	10.0	309	1190	7.8	278	2481	10.3	282
12/10/2020 4:00	12/10/2020 5:00	31	32	29	43	45	42	0.0		31.4	1982	9.3	309	1218	8.1	279	2095	9.5	285
12/10/2020 5:00	12/10/2020 6:00	33	34	30	46	47	44	0.0		32.1	1864	9.0	309	1447	8.5	278	2165	9.6	282
12/10/2020 6:00	12/10/2020 7:00	35	36	32	46	48	44	0.0		33	1763	8.9	321	1015	7.6	287	1519	8.7	293
12/10/2020 7:00	12/10/2020 8:00	37	39	33	51	54	47	0.0		33.1	2707	10.8	321	1688	8.7	289	2366	10.1	292
12/10/2020 8:00	12/10/2020 9:00	36	38	33	50	51	47	0.0		33.8	2611	10.9	323	2145	9.6	291	2614	11.1	294
12/10/2020 9:00	12/10/2020 10:00	35	37	32	49	51	46	0.0	0.02	35.6	1996	9.3	316	1605	8.6	288	2146	9.7	290
12/10/2020 10:00	12/10/2020 11:00	38	40	34	51	52	48	0.0		35.9	2530	10.4	314	2250	9.8	287	2402	10.2	289
12/10/2020 11:00	12/10/2020 12:00	40	43	36	51	53	49	0.0		36.2	3063	12.2	322	2966	11.5	293	3041	12.4	295
12/10/2020 12:00	12/10/2020 13:00	40	43	37	51	53	49	0.0		36.9	307								

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LA <sub>eq</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>90</sub> (dBA)	LC <sub>eq</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>90</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/10/2020 19:00	12/10/2020 20:00	30	33	27	44	46	41	0.0		28.9	1235	7.8	318	637	6.5	287	1051	7.5	291
12/10/2020 20:00	12/10/2020 21:00	30	32	28	45	46	42	0.0		27.4	910	6.8	317	360	5.3	285	733	6.5	286
12/10/2020 21:00	12/10/2020 22:00	30	32	26	44	46	42	0.0		26.7	825	6.7	318	554	6.1	287	933	7.2	292
12/10/2020 22:00	12/10/2020 23:00	32	32	26	47	47	41	0.0		25.5	853	6.9	319	518	6.1	290	765	6.9	293
12/10/2020 23:00	12/11/2020 0:00	29	30	27	42	43	40	0.0		24.7	925	7.1	305	587	6.4	280	972	7.5	283
12/11/2020 0:00	12/11/2020 1:00	27	28	25	42	43	39	0.0		24.4	654	6.4	295	336	5.5	272	672	6.6	273
12/11/2020 1:00	12/11/2020 2:00	27	28	24	42	44	40	0.0		23.8	443	5.7	285	255	5.1	269	572	6.4	266
12/11/2020 2:00	12/11/2020 3:00	26	28	23	41	43	38	0.0		22.6	209	4.7	276	83	4.1	251	255	5.1	256
12/11/2020 3:00	12/11/2020 4:00	25	27	21	40	43	37	0.0		21.8	84	4.1	270	-9	3.0	259	54	3.6	246
12/11/2020 4:00	12/11/2020 5:00	29	31	24	42	44	39	0.0		21.5	398	5.9	262	92	4.0	236	303	5.6	241
12/11/2020 5:00	12/11/2020 6:00	29	32	26	43	45	40	0.0		20.9	360	5.4	251	118	4.0	240	441	5.8	226
12/11/2020 6:00	12/11/2020 7:00	33	35	28	47	49	43	0.0		20.5	797	6.7	230	463	5.7	208	1805	8.3	204
12/11/2020 7:00	12/11/2020 8:00	35	37	32	47	49	44	0.0		20.3	1265	7.9	244	553	5.9	218	1342	7.6	212
12/11/2020 8:00	12/11/2020 9:00	35	37	32	48	50	43	0.0		22.3	1450	8.0	235	576	5.6	212	850	8.0	213
12/11/2020 9:00	12/11/2020 10:00	39	38	32	50	51	46	0.0		29.8	2011	9.3	241	1124	7.5	220	2529	9.4	211
12/11/2020 10:00	12/11/2020 11:00	36	38	33	49	50	46	0.0		32.6	2516	10.4	248	1649	8.5	229	2822	10.5	221
12/11/2020 11:00	12/11/2020 12:00	38	40	34	50	52	47	0.0		39.7	2645	10.3	245	1878	8.8	227	2663	10.0	217
12/11/2020 12:00	12/11/2020 13:00	37	39	33	49	50	46	0.0		41.6	2028	9.2	244	1376	7.9	226	1698	8.0	215
12/11/2020 13:00	12/11/2020 14:00	43	37	30	49	49	44	0.0		43.2	1089	7.3	243	652	5.9	223	782	6.2	212
12/11/2020 14:00	12/11/2020 15:00	40	40	31	49	50	45	0.0		44.2	1557	8.1	236	663	6.0	217	982	6.4	208
12/11/2020 15:00	12/11/2020 16:00	36	36	32	48	49	45	0.0		40.2	1601	8.2	240	583	5.8	221	1325	7.1	211
12/11/2020 16:00	12/11/2020 17:00	35	35	32	48	49	46	0.0		37.5	2165	9.1	243	691	6.0	227	1677	7.8	218
12/11/2020 17:00	12/11/2020 18:00	34	35	33	48	50	46	0.0		37.3	2773	10.6	246	1224	7.3	228	2588	9.6	220
12/11/2020 18:00	12/11/2020 19:00	34	36	33	49	50	47	0.0		42	3055	11.5	247	1637	8.1	229	3046	11.1	221
12/11/2020 19:00	12/11/2020 20:00	34	36	33	48	50	46	0.0		43	3174	12.5	256	2626	10.1	238	3181	12.6	231
12/11/2020 20:00	12/11/2020 21:00	36	38	34	47	48	46	0.0		38.9	3200	13.8	263	3160	12.3	242	3200	14.0	240
12/11/2020 21:00	12/11/2020 22:00	35	37	33	46	48	45	0.0		35.4	2878	11.5	268	2486	10.5	243	3060	12.5	246
12/11/2020 22:00	12/11/2020 23:00	34	35	33	45	47	44	0.0		33.2	2134	9.5	262	1587	8.5	237	2731	10.6	238
12/11/2020 23:00	12/12/2020 0:00	35	36	32	48	48	43	0.0		31.7	2352	10.0	266	1583	8.5	243	2678	10.7	243
12/12/2020 0:00	12/12/2020 1:00	33	35	29	43	45	41	0.0		31.6	2076	10.0	275	1314	8.2	248	1934	9.3	259
12/12/2020 1:00	12/12/2020 2:00	35	29	26	48	42	38	0.0		29.8	931	6.7	292	543	5.8	250	909	6.7	269
12/12/2020 2:00	12/12/2020 3:00	27	28	25	40	42	38	0.0		29.1	547	5.7	304	340	5.6	253	612	5.8	276
12/12/2020 3:00	12/12/2020 4:00	27	28	24	40	42	37	0.0		28.9	80	3.4	335	34	2.6	283	94	3.4	312
12/12/2020 4:00	12/12/2020 5:00	28	31	25	39	41	35	0.0		29	-11	2.3	60	-15	1.7	136	-9	2.4	41
12/12/2020 5:00	12/12/2020 6:00	31	33	27	42	45	37	0.0		29.2	-2	3.0	116	-15	2.4	113	-7	3.0	89
12/12/2020 6:00	12/12/2020 7:00	33	37	28	43	46	40	0.0		28.8	168	4.6	113	53	3.7	92	154	4.7	90
12/12/2020 7:00	12/12/2020 8:00	35	38	28	45	47	42	0.0		28.9	455	5.9	114	196	4.7	88	306	5.4	88
12/12/2020 8:00	12/12/2020 9:00	33	35	29	45	47	42	0.0		29.8	580	6.1	107	317	5.5	76	157	6.7	88
12/12/2020 9:00	12/12/2020 10:00	33	35	30	48	50	44	0.0		33.1	685	6.2	113	386	5.6	87	615	6.2	88
12/12/2020 10:00	12/12/2020 11:00	39	37	32	51	49	45	0.0		35.4	803	6.6	102	454	5.9	75	711	6.8	82
12/12/2020 11:00	12/12/2020 12:00	34	36	30	47	49	45	0.0		36.4	1066	7.2	117	672	6.7	91	958	7.2	92
12/12/2020 12:00	12/12/2020 13:00	33	35	31	48	49	45	0.0		36.4	1342	7.6	113	693	6.7	88	990	7.2	90
12/12/2020 13:00	12/12/2020 14:00	35	36	33	50	51	48	0.0	Trace	36.3	1892	8.8	112	1016	7.5	88	1281	7.9	89
12/12/2020 14:00	12/12/2020 15:00	36	37	34	50	52	48	0.0		35.2	2130	9.3	106	1213	8.0	80	1548	8.5	85
12/12/2020 15:00	12/12/2020 16:00	36	38	34	51	53	48	0.0		35.5	2330	9.7	102	1392	8.3	77	1918	9.3	81
12/12/2020 16:00	12/12/2020 17:00	36	38	35	50	52	49	0.0	0.01	35	2013	9.0	98	1164	7.9	73	1531	8.6	80
12/12/2020 17:00	12/12/2020 18:00	37	38	35	49	51	47	0.0	0.02	34.9	1864	8.7	95	1094	7.6	69	1451	8.4	76
12/12/2020 18:00	12/12/2020 19:00	36	37	34	48	50	46	0.0	0.02	35.1	1597	8.2	92	966	7.3	65	1306	8.1	74
12/12/2020 19:00	12/12/2020 20:00	32	34	31	46	48	44	0.0	0.01	35	647	6.2	79	445	5.7	47	716	7.0	60
12/12/2020 20:00	12/12/2020 21:00	30	33	26	45	47	42	0.0		34.7	431	5.3	80	433	5.5	49	688	6.9	57
12/12/2020 21:00	12/12/2020 22:00	26	28	23	43	45	40	0.0		34.6	324	4.9	85	188	4.6	53	300	5.3	57
12/12/2020 22:00	12/12/2020 23:00	24	25	22	40	42	36	0.0		34.3	64	3.7	89	-5	2.9	44	35	3.5	51
12/12/2020 23:00	12/13/2020 0:00	25	26	23	40	42	37	0.0	0.01	33.4	46	3.8	120	-15	2.9	61	17	3.4	84
12/13/2020 0:00	12/13/2020 1:00	35	38	24	42	44	37	0.0	0.04	33	137	4.0	162	-3	2.8	89	95	3.7	130
12/13/2020 1:00	12/13/2020 2:00	31	33	27	45	47	42	0.0	0.05	33	683	5.8	207	91	3.9	158	748	5.9	184
12/13/2020 2:00	12/13/2020 3:00	35	36	30	47	49	44	0.0	0.02	33.1	1391	7.6	224	240	4.7	205	1149	6.7	197
12/13/2020 3:00	12/13/2020 4:00	32	34	29	46	49	43	0.0		33.1	1402	7.8	231	258	5.2	210	1168	6.8	203
12/13/2020 4:00	12/13/2020 5:00	28	30	24	44	47	40	0.0		33.2	746	6.3	227	125	4.5	209	567	5.6	197
12/13/2020 5:00	12/13/2020 6:00	26	28	24	43	45	40	0.0		33.1	819	6.6	237	143	4.2	214	705	6.1	209
12/13/2020 6:00	12/13/2020 7:00	28	31	25	46	48	42	0.0		33.1	1055	7.0	229	250	4.9	210	838	6.2	197
12/13/2020 7:00	12/13/2020 8:00	31	32	27	47	49	42	0.0	0.01	33.1	1192	7.5	243	488	5.6	223	1098	6.9	216
12/13/2020 8:00	12/13/2020 9:00	30	31	27	44	46	42	0.0		34.8	1234	7.6	248	594	6.0	228	1069	6.9	223
12/13/2020 9:00	12/13/2020 10:00	33	34	29	46	49	44	0.0		42.7	1688	8.3	254	891	6.8	236	1866	8.5	229
12/13/2020 10:00	12/13/2020 11:00	32	34	30	46	48	44	0.0		43.9	1106	7.3	257	746	6.5	236	1570	8.0	231
12/13/2020 11:00	12/13/2020 12:00	36	38	34	49	51	47	0.0		45.4	2789	10.8	252	1420	7.8	235	2320	9.1	227
12/13/2020 12:00	12/13/202																		

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/13/2020 19:00	12/13/2020 20:00	39	42	35	50	51	47	0.1		37.6	3147	12.8	286	3104	12.1	264	3198	13.6	263
12/13/2020 20:00	12/13/2020 21:00	37	40	34	51	52	48	0.0		36	3141	11.9	294	3076	11.7	271	3188	13.0	269
12/13/2020 21:00	12/13/2020 22:00	37	39	33	49	51	47	0.0		34.8	3034	11.8	299	2969	11.8	273	3191	13.4	274
12/13/2020 22:00	12/13/2020 23:00	33	34	31	47	49	45	0.0		32.8	1868	8.9	305	1650	8.7	277	2368	10.0	279
12/13/2020 23:00	12/14/2020 0:00	34	36	32	48	51	45	0.0		32.5	2434	10.2	312	2206	9.7	283	2844	11.1	286
12/14/2020 0:00	12/14/2020 1:00	34	36	33	49	50	47	0.0		32.8	2542	10.2	318	2214	9.7	288	2789	11.1	290
12/14/2020 1:00	12/14/2020 2:00	34	35	32	47	48	45	0.0		30.8	1549	8.3	325	1079	7.6	293	1536	8.7	296
12/14/2020 2:00	12/14/2020 3:00	32	34	29	46	48	43	0.0		30.5	1157	7.5	326	844	7.0	294	1193	7.9	299
12/14/2020 3:00	12/14/2020 4:00	28	30	26	45	47	42	0.0		29.2	518	6.1	326	389	5.8	292	581	6.6	298
12/14/2020 4:00	12/14/2020 5:00	30	33	27	45	47	42	0.0		29.6	426	5.9	331	331	5.7	295	538	6.6	301
12/14/2020 5:00	12/14/2020 6:00	33	35	30	46	48	44	0.0		31	902	7.1	338	693	6.6	304	963	7.7	308
12/14/2020 6:00	12/14/2020 7:00	31	32	27	47	49	44	0.0		32.1	427	5.8	344	288	5.3	310	390	6.0	314
12/14/2020 7:00	12/14/2020 8:00	35	35	28	50	53	45	0.0		32.1	432	5.7	331	310	5.4	298	437	6.1	301
12/14/2020 8:00	12/14/2020 9:00	33	32	27	49	49	43	0.0		32.5	352	5.3	287	398	5.6	261	514	5.9	267
12/14/2020 9:00	12/14/2020 10:00	30	31	25	44	46	42	0.0		33.2	-4	2.6	251	-12	1.9	285	-4	2.2	284
12/14/2020 10:00	12/14/2020 11:00	25	26	23	44	46	41	0.0	Trace	33.2	-6	3.1	160	-15	2.8	202	-10	3.1	179
12/14/2020 11:00	12/14/2020 12:00	26	25	22	43	45	41	0.0	Trace	32.9	-8	3.2	174	-15	2.9	142	-8	2.8	146
12/14/2020 12:00	12/14/2020 13:00	25	26	23	44	45	41	0.0	0.02	32.5	-9	3.3	182	-15	2.9	149	-9	2.6	166
12/14/2020 13:00	12/14/2020 14:00	25	25	23	43	44	40	0.0	0.01	32.5	-8	2.0	231	-14	1.4	145	-8	2.0	199
12/14/2020 14:00	12/14/2020 15:00	27	29	23	44	46	41	0.0	Trace	32.4	83	4.0	289	40	3.4	260	120	4.3	264
12/14/2020 15:00	12/14/2020 16:00	30	30	25	44	46	41	0.0	Trace	32.3	106	4.7	293	36	4.2	269	89	4.6	270
12/14/2020 16:00	12/14/2020 17:00	29	31	27	45	47	43	0.0		32	494	6.4	302	362	6.0	276	498	6.6	277
12/14/2020 17:00	12/14/2020 18:00	34	37	29	47	49	43	0.0		32.3	1247	7.9	320	884	7.2	292	1120	7.9	293
12/14/2020 18:00	12/14/2020 19:00	34	36	32	47	49	45	0.0		31.3	1577	8.6	317	1107	7.9	290	1246	8.2	292
12/14/2020 19:00	12/14/2020 20:00	33	35	30	46	48	44	0.0		30.7	1386	8.1	316	914	7.2	287	1170	7.9	289
12/14/2020 20:00	12/14/2020 21:00	34	36	30	48	50	45	0.0		30.7	2064	9.2	315	1188	7.7	287	1549	8.6	289
12/14/2020 21:00	12/14/2020 22:00	40	38	33	51	52	48	0.0		30.7	2902	11.2	316	2352	10.0	289	2823	11.1	289
12/14/2020 22:00	12/14/2020 23:00	41	40	34	53	54	49	0.0	Trace	31.1	2932	11.1	312	2402	10.0	286	2945	11.4	286
12/14/2020 23:00	12/15/2020 0:00	41	44	35	52	54	49	0.1		30.7	3122	13.2	311	3029	12.4	284	3129	13.0	284
12/15/2020 0:00	12/15/2020 1:00	41	43	36	52	54	50	0.1		30.4	3081	12.9	317	2967	11.9	288	3083	12.9	288
12/15/2020 1:00	12/15/2020 2:00	43	46	37	53	55	50	0.1		29.7	3182	14.0	317	3169	13.7	290	3192	14.4	289
12/15/2020 2:00	12/15/2020 3:00	41	44	36	52	54	50	0.1		28.9	3170	13.8	317	3189	13.6	291	3169	14.1	290
12/15/2020 3:00	12/15/2020 4:00	44	48	36	53	55	50	0.3		27.7	3172	14.1	308	3151	14.3	281	3181	15.3	281
12/15/2020 4:00	12/15/2020 5:00	43	46	37	53	55	50	0.3		26.7	3184	14.7	311	3171	13.2	284	3188	14.4	282
12/15/2020 5:00	12/15/2020 6:00	40	43	34	52	54	49	0.1		25.9	3158	13.4	314	3103	12.4	287	3171	13.5	286
12/15/2020 6:00	12/15/2020 7:00	36	39	33	50	52	48	0.0		24.9	3103	12.6	318	2860	11.4	291	3041	12.1	290
12/15/2020 7:00	12/15/2020 8:00	40	41	35	52	53	49	0.0		24.4	3111	12.5	317	3014	11.8	289	2924	12.1	290
12/15/2020 8:00	12/15/2020 9:00	38	41	33	51	53	48	0.0		24.9	2251	9.8	316	1897	9.1	292	325	8.5	292
12/15/2020 9:00	12/15/2020 10:00	38	40	33	50	52	48	0.1		25.6	1243	8.1	327	1439	8.3	292	2228	9.7	292
12/15/2020 10:00	12/15/2020 11:00	42	45	37	52	54	50	0.2		25.4	2823	10.9	312	2681	10.6	290	2706	10.8	292
12/15/2020 11:00	12/15/2020 12:00	44	48	38	54	56	51	0.3		25.8	2847	11.8	318	2810	11.8	289	3134	12.8	290
12/15/2020 12:00	12/15/2020 13:00	42	46	37	52	54	50	0.2		26.5	2345	10.3	317	2772	11.2	287	3028	12.2	290
12/15/2020 13:00	12/15/2020 14:00	40	44	36	52	54	50	0.2		27.6	1977	9.4	327	2564	10.4	290	2671	11.1	293
12/15/2020 14:00	12/15/2020 15:00	41	44	35	53	54	50	0.1		27.3	2828	11.1	324	2769	10.7	297	2815	11.3	302
12/15/2020 15:00	12/15/2020 16:00	38	40	32	50	52	48	0.0		24.8	1934	9.0	325	1761	8.8	297	2082	9.7	296
12/15/2020 16:00	12/15/2020 17:00	36	38	32	50	52	48	0.0		23.1	2127	9.3	331	1927	9.0	301	2001	9.6	307
12/15/2020 17:00	12/15/2020 18:00	37	38	32	51	52	49	0.0		21.8	2548	10.1	327	2046	9.2	297	2172	9.7	301
12/15/2020 18:00	12/15/2020 19:00	35	37	29	50	52	46	0.0		20.4	1785	8.8	328	1610	8.5	298	2114	9.7	301
12/15/2020 19:00	12/15/2020 20:00	33	36	26	48	50	44	0.0		19.5	1633	8.7	327	1625	8.6	296	1972	9.7	300
12/15/2020 20:00	12/15/2020 21:00	28	30	24	45	47	42	0.0		17.7	375	7.2	280	657	6.7	305	701	7.5	312
12/15/2020 21:00	12/15/2020 22:00	30	33	26	44	46	42	0.0		16.4	848	7.2	297	694	6.6	321	-6	7.3	330
12/15/2020 22:00	12/15/2020 23:00	27	29	23	46	48	41	0.0		15.2	595	6.7	350	472	6.2	314	101	6.8	321
12/15/2020 23:00	12/16/2020 0:00	31	31	24	47	48	42	0.0		13.8	703	7.0	349	442	6.3	314	613	7.2	320
12/16/2020 0:00	12/16/2020 1:00	25	27	21	44	46	41	0.0		13	439	6.2	177	233	5.1	322	293	6.2	329
12/16/2020 1:00	12/16/2020 2:00	26	28	22	44	47	41	0.0		12	480	6.3	349	349	5.6	313	431	6.6	325
12/16/2020 2:00	12/16/2020 3:00	25	28	22	44	46	41	0.0		11.3	481	6.4	348	224	5.3	310	400	6.4	320
12/16/2020 3:00	12/16/2020 4:00	24	26	20	43	46	40	0.0		11.1	345	5.8	327	276	5.5	295	416	6.2	303
12/16/2020 4:00	12/16/2020 5:00	32	35	28	48	50	45	0.0		10.5	1692	8.4	333	1367	8.1	300	1637	8.8	304
12/16/2020 5:00	12/16/2020 6:00	31	33	27	47	49	44	0.0		9.9	874	6.8	335	645	6.8	300	1114	7.9	302
12/16/2020 6:00	12/16/2020 7:00	28	30	25	47	49	44	0.0		9.8	474	5.8	328	357	5.9	293	560	6.3	300
12/16/2020 7:00	12/16/2020 8:00	32	33	28	48	50	45	0.0		10.1	920	6.9	338	686	6.3	296	1026	7.1	307
12/16/2020 8:00	12/16/2020 9:00	30	29	21	48	50	43	0.0		10.7	20	4.1	339	1	3.9	285	-10	4.3	299
12/16/2020 9:00	12/16/2020 10:00	28	28	22	46	47	43	0.0		12.3	3	3.2	76	-13	2.9	305	3	3.1	239
12/16/2020 10:00	12/16/2020 11:00	25	27	20	46	48	43	0.0		14.6	29	3.8	178	15	3.7	305	3	3.7	313
12/16/2020 11:00	12/16/2020 12:00	38	29	20	50	47	42	0.0		17.6	-7	3.4	46	-14	3.3				



**APPENDIX B**

**Table B-3: Hourly Monitoring Data for Location 3**

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/16/2020 19:00	12/16/2020 20:00	28	30	25	47	49	44	0.0		18.6	534	6.4	101	449	6.5	84	654	7.1	83
12/16/2020 20:00	12/16/2020 21:00	32	35	27	49	51	45	0.0		18.6	934	7.4	101	784	7.3	81	946	7.8	82
12/16/2020 21:00	12/16/2020 22:00	34	36	31	51	52	49	0.0		18.6	1303	8.0	105	1157	8.2	83	768	8.2	86
12/16/2020 22:00	12/16/2020 23:00	35	37	32	53	55	50	0.0	Trace	18	1617	8.6	104	1578	8.8	81	-7	9.3	82
12/16/2020 23:00	12/17/2020 0:00	40	43	34	54	56	51	0.0	0.04	16.5	2275	9.7	96	2067	9.7	76	1038	10.2	78
12/17/2020 0:00	12/17/2020 1:00	44	46	40	56	58	54	0.1	0.09	14.5	2742	10.9	84	2588	10.6	63	2998	11.7	65
12/17/2020 1:00	12/17/2020 2:00	45	47	41	56	58	54	0.0	0.1	13.5	1836	8.3	74	2464	10.0	51	3083	12.2	54
12/17/2020 2:00	12/17/2020 3:00	46	48	43	58	59	55	0.0	0.19	13.3	2892	11.1	69	2863	11.6	50	3175	14.1	51
12/17/2020 3:00	12/17/2020 4:00	46	48	43	56	58	54	0.0	0.1	13.5	2987	11.2	62	2786	11.1	42	3109	13.5	45
12/17/2020 4:00	12/17/2020 5:00	47	50	43	55	56	52	0.1	0.11	13.8	3148	13.6	50	2735	11.1	25	3117	14.4	30
12/17/2020 5:00	12/17/2020 6:00	50	53	46	56	57	54	0.3	0.05	14.1	3089	12.8	55	2728	11.5	34	3155	14.6	37
12/17/2020 6:00	12/17/2020 7:00	47	49	43	54	56	52	0.2	Trace	14.3	2948	11.8	52	2648	10.7	30	3046	12.8	34
12/17/2020 7:00	12/17/2020 8:00	46	49	42	55	57	53	0.3	0.04	14.3	3078	12.2	55	2884	11.6	32	3100	13.4	37
12/17/2020 8:00	12/17/2020 9:00	47	50	43	55	56	52	0.2	0.04	14.7	3114	13.2	51	2943	12.4	29	3133	14.4	32
12/17/2020 9:00	12/17/2020 10:00	44	47	39	52	55	49	0.1	0.08	14.5	3072	13.1	45	2229	9.8	20	3015	13.7	24
12/17/2020 10:00	12/17/2020 11:00	40	42	37	52	53	48	0.0	0.07	15.4	2749	10.4	41	945	7.1	19	2502	10.3	21
12/17/2020 11:00	12/17/2020 12:00	37	39	35	49	51	46	0.0	0.08	16.3	2293	9.5	36	618	6.3	15	1673	8.5	18
12/17/2020 12:00	12/17/2020 13:00	37	39	34	46	48	44	0.0	0.02	17.3	1878	8.6	27	154	4.9	10	770	6.9	65
12/17/2020 13:00	12/17/2020 14:00	38	41	35	47	48	45	0.0	Trace	18.8	1894	8.6	23	191	5.3	182	1292	7.8	356
12/17/2020 14:00	12/17/2020 15:00	38	40	34	46	48	44	0.0	Trace	19.8	2006	8.9	19	250	5.4	291	1913	8.8	349
12/17/2020 15:00	12/17/2020 16:00	39	42	35	49	49	45	0.0		20.3	2317	9.4	23	142	4.9	184	1358	7.6	298
12/17/2020 16:00	12/17/2020 17:00	36	38	33	46	48	44	0.0		19.2	2171	9.0	31	459	5.8	12	1331	7.5	13
12/17/2020 17:00	12/17/2020 18:00	34	36	30	45	47	42	0.0		18.9	1446	7.9	32	203	4.9	19	1098	7.1	15
12/17/2020 18:00	12/17/2020 19:00	29	31	23	41	43	39	0.0		19.7	827	6.8	72	101	4.6	230	570	6.3	226
12/17/2020 19:00	12/17/2020 20:00	31	26	21	44	44	37	0.0		20.1	204	5.1	236	107	4.6	311	200	5.1	322
12/17/2020 20:00	12/17/2020 21:00	24	24	21	39	41	37	0.0		19.5	324	5.5	349	127	4.5	303	163	4.8	311
12/17/2020 21:00	12/17/2020 22:00	27	27	23	40	40	37	0.0		18.9	524	6.3	354	157	4.6	309	157	4.8	311
12/17/2020 22:00	12/17/2020 23:00	27	27	21	42	43	37	0.0		18.9	305	5.1	239	65	4.0	309	220	4.6	336
12/17/2020 23:00	12/18/2020 0:00	25	27	21	41	43	36	0.0		18.6	195	4.6	124	74	4.4	208	304	5.3	113
12/18/2020 0:00	12/18/2020 1:00	25	23	20	40	41	36	0.0		18.4	195	4.3	328	157	4.7	285	216	4.8	307
12/18/2020 1:00	12/18/2020 2:00	31	27	23	43	42	38	0.0		18.6	505	5.8	236	89	4.0	304	439	5.5	339
12/18/2020 2:00	12/18/2020 3:00	27	28	25	40	42	39	0.0		19.3	908	7.1	14	158	4.5	323	609	6.3	119
12/18/2020 3:00	12/18/2020 4:00	26	28	24	41	43	39	0.0		19.2	560	5.9	23	43	4.2	233	481	5.8	65
12/18/2020 4:00	12/18/2020 5:00	25	27	23	40	42	38	0.0		18.8	343	5.1	23	20	4.0	182	360	5.4	11
12/18/2020 5:00	12/18/2020 6:00	26	28	23	41	43	39	0.0		18.6	282	4.9	16	44	4.1	273	268	5.4	65
12/18/2020 6:00	12/18/2020 7:00	28	30	23	42	44	39	0.0		18.3	303	5.4	15	96	4.5	290	145	4.6	172
12/18/2020 7:00	12/18/2020 8:00	29	31	25	43	45	40	0.0		17.3	169	4.8	11	109	4.6	271	99	4.4	343
12/18/2020 8:00	12/18/2020 9:00	29	30	24	43	44	39	0.0		17.2	105	4.5	63	144	5.1	268	12	4.4	337
12/18/2020 9:00	12/18/2020 10:00	27	30	23	43	44	39	0.0	0.01	18.9	144	5.0	16	58	4.1	271	68	4.8	177
12/18/2020 10:00	12/18/2020 11:00	28	28	21	45	48	39	0.0	0.01	21.8	131	4.3	334	87	4.4	270	125	4.0	298
12/18/2020 11:00	12/18/2020 12:00	31	29	21	45	45	39	0.0		24.1	32	4.3	312	79	4.3	280	79	4.4	293
12/18/2020 12:00	12/18/2020 13:00	30	30	23	45	43	39	0.0		26.5	173	5.1	305	307	5.5	280	375	6.1	286
12/18/2020 13:00	12/18/2020 14:00	25	27	23	41	43	39	0.0	0.01	26.9	265	5.4	333	386	5.9	299	389	6.4	300
12/18/2020 14:00	12/18/2020 15:00	35	28	22	47	43	39	0.0	0.01	26	308	5.7	338	315	5.5	305	337	6.1	303
12/18/2020 15:00	12/18/2020 16:00	24	26	21	40	42	38	0.0		18.3	236	5.2	328	221	5.4	300	312	6.0	299
12/18/2020 16:00	12/18/2020 17:00	30	30	25	43	43	39	0.0		15.4	567	6.0	331	505	6.1	299	627	6.9	304
12/18/2020 17:00	12/18/2020 18:00	31	31	28	44	43	40	0.0		13	701	6.0	335	652	6.0	302	796	7.2	313
12/18/2020 18:00	12/18/2020 19:00	30	32	28	42	43	40	0.0		14	810	6.4	340	597	6.0	303	762	6.9	312
12/18/2020 19:00	12/18/2020 20:00	27	29	25	41	43	39	0.0		12.4	540	6.1	349	326	5.1	298	418	5.6	307
12/18/2020 20:00	12/18/2020 21:00	27	29	24	41	43	38	0.0		9.8	487	6.0	298	219	4.5	298	408	5.9	324
12/18/2020 21:00	12/18/2020 22:00	24	26	22	39	41	36	0.0		4.8	213	5.0	350	200	4.7	284	157	4.4	301
12/18/2020 22:00	12/18/2020 23:00	28	27	22	45	45	35	0.0		2.4	80	4.6	272	297	5.7	279	136	4.5	286
12/18/2020 23:00	12/19/2020 0:00	24	27	21	38	40	36	0.0		1.4	7	3.2	331	208	5.2	271	49	4.4	299
12/19/2020 0:00	12/19/2020 1:00	24	25	22	37	39	35	0.0		0.3	-4	4.2	320	201	5.5	283	36	3.9	288
12/19/2020 1:00	12/19/2020 2:00	23	24	21	37	38	34	0.0		-0.6	-13	3.7	296	162	5.6	279	33	4.1	282
12/19/2020 2:00	12/19/2020 3:00	23	25	20	37	39	34	0.0		-1.5	-18	2.7	298	60	5.0	284	-7	3.2	281
12/19/2020 3:00	12/19/2020 4:00	23	24	20	36	39	32	0.0		-2.3	-17	1.8	246	-8	3.0	325	-10	1.7	209
12/19/2020 4:00	12/19/2020 5:00	26	28	22	34	36	32	0.0		-3.3	-17	1.5	205	-14	1.2	216	-12	1.1	174
12/19/2020 5:00	12/19/2020 6:00	27	29	23	39	43	34	0.0		-3.5	-17	3.0	245	-14	2.6	320	-11	2.5	216
12/19/2020 6:00	12/19/2020 7:00	28	30	23	39	42	35	0.0		-4.1	-17	3.0	252	-14	2.7	280	-12	2.5	232
12/19/2020 7:00	12/19/2020 8:00	29	32	24	40	42	36	0.0		-4.4	-18	2.5	234	-14	0.9	253	-11	2.3	209
12/19/2020 8:00	12/19/2020 9:00	30	33	25	43	44	37	0.0		-2.3	-16	3.3	234	-15	1.9	193	-10	3.2	217
12/19/2020 9:00	12/19/2020 10:00	30	32	23	44	47	36	0.0		5.9	-12	2.5	211	-14	2.2	166	-9	2.3	181
12/19/2020 10:00	12/19/2020 11:00	37	34	18	49	48	36	0.0		17.9	-9	1.9	213	-14	1.2	236	-8	2.2	182
12/19/2020 11:00	12/19/2020 12:00	30	30	17	45	45	36	0.0		24.4	-9	2.8	244	-15	2.5	254	-9	2.3	224
12/19/2020 12:00	12/19/2020 13:00	27	24	16	42	41	35	0.0	0.01</										

APPENDIX B

Table B-3: Hourly Monitoring Data for Location 3

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 5			Turbine 6			Turbine 7		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)	Wind at 2 meters above ground level			Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/19/2020 19:00	12/19/2020 20:00	20	22	18	38	40	35	0.0		20	48	3.5	240	-12	2.4	233	32	3.5	220
12/19/2020 20:00	12/19/2020 21:00	22	23	19	39	41	35	0.0		18.2	97	4.2	230	-10	3.1	202	60	3.9	212
12/19/2020 21:00	12/19/2020 22:00	21	23	18	38	41	35	0.0		15	83	3.8	233	-13	2.4	231	47	3.6	218
12/19/2020 22:00	12/19/2020 23:00	28	25	20	43	42	37	0.0		14.6	417	5.4	240	37	3.4	227	359	5.6	220
12/19/2020 23:00	12/20/2020 0:00	21	23	19	39	41	36	0.0		14.8	251	4.7	226	-13	2.6	215	334	5.3	210
12/20/2020 0:00	12/20/2020 1:00	25	27	21	40	41	37	0.0		15.3	686	6.3	230	180	4.8	207	1361	8.0	211
12/20/2020 1:00	12/20/2020 2:00	28	30	25	41	43	39	0.0		16.6	1289	7.9	246	446	5.6	219	2351	9.7	224
12/20/2020 2:00	12/20/2020 3:00	25	27	21	40	43	36	0.0		17.6	826	6.6	233	218	4.7	209	1456	8.2	210
12/20/2020 3:00	12/20/2020 4:00	25	27	22	42	45	40	0.0		17.8	965	7.0	228	541	5.9	207	1572	7.6	196
12/20/2020 4:00	12/20/2020 5:00	29	30	21	44	45	39	0.0		17.9	1220	7.4	238	536	6.0	219	1835	8.8	216
12/20/2020 5:00	12/20/2020 6:00	28	30	25	42	44	40	0.0		16.5	1256	7.6	236	885	7.3	216	1930	9.3	216
12/20/2020 6:00	12/20/2020 7:00	28	29	23	42	44	39	0.0		14.4	1397	8.3	230	612	6.3	212	910	6.5	202
12/20/2020 7:00	12/20/2020 8:00	31	31	25	46	46	40	0.0		14.5	1308	8.1	238	1356	7.9	218	1618	7.6	209
12/20/2020 8:00	12/20/2020 9:00	33	33	23	47	49	39	0.0		17.8	1490	8.2	235	1081	7.2	214	514	8.1	213
12/20/2020 9:00	12/20/2020 10:00	28	30	25	44	46	41	0.0		24.1	1199	7.7	234	376	5.7	217	1122	6.9	202
12/20/2020 10:00	12/20/2020 11:00	34	36	28	46	48	40	0.0		25.6	1436	7.9	229	172	4.7	214	690	6.0	203
12/20/2020 11:00	12/20/2020 12:00	36	39	29	44	46	41	0.0		26.7	1037	7.1	227	90	4.4	212	400	5.5	197
12/20/2020 12:00	12/20/2020 13:00	38	42	30	45	48	40	0.0		28.1	929	6.8	217	95	4.3	193	486	5.4	185
12/20/2020 13:00	12/20/2020 14:00	32	35	23	41	44	38	0.1	Trace	29.2	369	5.2	202	19	3.8	170	68	4.2	173
12/20/2020 14:00	12/20/2020 15:00	32	35	26	42	44	39	0.1	Trace	30.8	486	5.9	237	171	4.6	220	174	4.7	211
12/20/2020 15:00	12/20/2020 16:00	32	34	28	43	45	40	0.0	0.01	29.2	789	6.6	226	171	4.7	205	540	5.7	194
12/20/2020 16:00	12/20/2020 17:00	31	33	27	43	45	40	0.0	0.01	28.1	1076	7.1	213	144	4.7	183	594	5.7	178
12/20/2020 17:00	12/20/2020 18:00	34	36	30	45	47	42	0.0	Trace	27.8	1908	8.7	221	321	5.2	206	1179	6.9	189
12/20/2020 18:00	12/20/2020 19:00	36	38	32	46	48	43	0.0	Trace	27.7	2029	8.9	226	556	6.0	208	1038	6.8	196
12/20/2020 19:00	12/20/2020 20:00	37	40	34	45	47	43	0.0		28.5	2582	10.3	233	837	6.8	217	924	6.8	207
12/20/2020 20:00	12/20/2020 21:00	37	39	34	45	47	43	0.0		29.6	2344	9.9	242	1488	8.2	223	1364	7.9	218
12/20/2020 21:00	12/20/2020 22:00	35	38	30	44	46	40	0.0		31.4	1136	8.5	245	886	7.6	226	937	7.5	219
12/20/2020 22:00	12/20/2020 23:00	35	37	30	44	44	39	0.0		31.5	-6	8.5	254	398	8.0	233	1416	8.8	222
12/20/2020 23:00	12/21/2020 0:00	32	36	25	40	42	32	0.0		31.7	67	7.8	257	-12	7.3	241	261	7.9	233
12/21/2020 0:00	12/21/2020 1:00	29	32	24	37	39	33	0.0		31.7	47	7.2	262	136	6.7	244	-6	7.3	239
12/21/2020 1:00	12/21/2020 2:00	31	34	26	38	40	35	0.0		31.6	-6	7.5	253	410	6.6	233	170	7.6	229
12/21/2020 2:00	12/21/2020 3:00	27	29	25	38	40	35	0.0		31.9	89	7.7	265	785	7.3	246	-6	8.3	242
12/21/2020 3:00	12/21/2020 4:00	25	27	22	36	38	32	0.0		30.8	-6	6.9	270	489	6.5	248	106	7.6	244
12/21/2020 4:00	12/21/2020 5:00	24	27	20	36	38	32	0.0		26.2	34	5.9	271	371	6.0	250	-5	7.0	252
12/21/2020 5:00	12/21/2020 6:00	23	25	21	37	38	34	0.0		23.1	26	4.3	267	134	4.7	255	-5	4.9	257
12/21/2020 6:00	12/21/2020 7:00	26	28	22	40	42	36	0.0		23.7	89	5.0	268	110	4.8	254	101	5.1	251
12/21/2020 7:00	12/21/2020 8:00	26	27	23	42	42	38	0.0		22.2	92	5.1	280	125	5.3	264	138	5.7	260
12/21/2020 8:00	12/21/2020 9:00	28	29	23	44	47	38	0.0		24.9	57	4.7	290	70	5.0	275	113	5.5	269
12/21/2020 9:00	12/21/2020 10:00	27	27	23	41	41	37	0.0		30.8	32	4.3	286	10	4.2	267	14	4.4	267
12/21/2020 10:00	12/21/2020 11:00	28	29	24	40	42	38	0.0		32	94	4.8	296	8	4.2	275	46	4.6	272
12/21/2020 11:00	12/21/2020 12:00	28	29	25	40	42	38	0.0		35.1	135	4.8	308	50	4.6	279	117	5.2	278
12/21/2020 12:00	12/21/2020 13:00	29	29	21	42	42	36	0.0		36.4	37	3.6	314	-15	3.1	279	19	3.9	288
12/21/2020 13:00	12/21/2020 14:00	25	27	22	39	41	36	0.0	0.02	37.6	14	3.4	324	-12	3.0	288	17	3.9	291
12/21/2020 14:00	12/21/2020 15:00	30	33	25	41	43	38	0.0	0.02	37.7	399	5.9	337	193	4.8	305	246	5.5	307
12/21/2020 15:00	12/21/2020 16:00	31	33	26	42	44	38	0.0	0.01	35.7	366	5.8	333	248	5.1	304	308	5.8	308
12/21/2020 16:00	12/21/2020 17:00	34	31	26	45	43	38	0.0		32.8	372	5.9	324	217	5.1	291	356	6.0	298
12/21/2020 17:00	12/21/2020 18:00	32	34	28	42	44	39	0.0		33.3	764	7.0	322	362	5.8	288	630	6.9	297
12/21/2020 18:00	12/21/2020 19:00	30	33	27	41	43	38	0.0		31.9	812	7.1	321	435	6.1	286	840	7.3	296
12/21/2020 19:00	12/21/2020 20:00	33	35	29	44	46	38	0.0		33.1	1153	8.0	320	521	6.3	284	1072	7.9	293
12/21/2020 20:00	12/21/2020 21:00	31	32	28	42	44	38	0.0		33	1169	7.9	311	606	6.8	278	1158	7.9	284
12/21/2020 21:00	12/21/2020 22:00	34	35	31	45	46	41	0.0		31.2	2135	9.6	307	1088	7.8	276	1903	9.2	280
12/21/2020 22:00	12/21/2020 23:00	37	40	31	50	54	41	0.0		31.5	2960	11.1	305	1367	8.2	275	2710	10.6	279
12/21/2020 23:00	12/22/2020 0:00	32	34	30	42	43	40	0.0		32.3	2945	11.1	308	1386	8.3	276	2567	10.3	282

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/9/2020 13:00	11/9/2020 14:00	45	47	40	53	55	48	2.1	69.9	230	4.7	274	247	4.5	265	198	4.3	281	248	4.6	281	258	4.6	291	
11/9/2020 14:00	11/9/2020 15:00	41	45	22	49	52	41	1.1	70.8	171	4.6	267	219	4.6	261	212	4.2	275	288	4.5	278	148	4.1	284	
11/9/2020 15:00	11/9/2020 16:00	40	42	21	54	56	40	0.7	68.4	35	3.7	247	-5	3.3	241	14	3.0	257	44	3.5	251	36	3.1	255	
11/9/2020 16:00	11/9/2020 17:00	40	41	22	52	54	41	0.7	59	136	3.6	228	57	3.0	216	22	2.9	235	127	4.0	235	223	4.7	245	
11/9/2020 17:00	11/9/2020 18:00	44	40	23	54	51	42	0.3	52.9	626	6.2	231	434	5.1	218	116	3.3	231	477	5.7	232	663	6.4	238	
11/9/2020 18:00	11/9/2020 19:00	36	31	24	54	48	41	0.4	49.8	903	6.9	229	808	6.3	216	376	5.1	230	1134	7.8	232	1070	7.4	240	
11/9/2020 19:00	11/9/2020 20:00	33	36	24	51	55	42	0.2	47.4	1099	7.8	243	890	6.7	229	631	6.0	238	1125	7.7	239	1171	7.8	251	
11/9/2020 20:00	11/9/2020 21:00	38	35	24	53	53	41	0.3	46	877	7.1	240	708	6.2	228	522	5.6	236	844	7.0	240	879	7.2	252	
11/9/2020 21:00	11/9/2020 22:00	32	32	22	46	49	40	0.2	44.7	719	6.6	241	645	5.9	231	254	4.3	246	604	6.2	243	672	6.5	250	
11/9/2020 22:00	11/9/2020 23:00	26	27	24	43	45	41	0.3	43.8	1041	7.3	233	818	6.3	221	767	6.6	240	1022	7.2	242	1040	7.4	246	
11/9/2020 23:00	11/10/2020 0:00	27	28	26	45	47	43	0.1	42.7	2386	9.6	230	1520	7.6	220	1254	7.6	235	2432	10.1	236	2286	9.5	241	
11/10/2020 0:00	11/10/2020 1:00	28	29	26	45	47	43	0.3	42.2	2805	10.5	239	2421	9.0	230	984	6.9	242	2264	9.7	241	2581	9.8	250	
11/10/2020 1:00	11/10/2020 2:00	29	30	28	47	49	45	0.3	41.3	2865	10.2	242	2152	8.5	231	1480	8.1	242	2724	10.4	243	2955	10.7	252	
11/10/2020 2:00	11/10/2020 3:00	26	28	24	43	45	41	0.3	40.1	2534	9.7	233	1809	7.7	221	1197	7.7	241	1907	8.6	240	2083	9.0	248	
11/10/2020 3:00	11/10/2020 4:00	27	28	26	46	48	44	0.3	39.5	3051	11.6	232	2100	8.4	225	1442	7.9	243	3928	11.2	241	3106	11.7	248	
11/10/2020 4:00	11/10/2020 5:00	29	30	27	48	50	46	0.2	39.5	3198	12.9	232	2311	9.0	222	1895	8.8	241	3198	12.2	238	3198	12.7	244	
11/10/2020 5:00	11/10/2020 6:00	34	33	29	50	51	47	0.4	38.9	3195	12.5	239	2604	10.1	231	2061	9.3	242	3183	12.6	240	3195	13.1	250	
11/10/2020 6:00	11/10/2020 7:00	37	38	31	52	54	48	0.2	39.7	3193	11.8	252	3178	11.5	242	2319	9.9	246	3106	12.2	248	3138	12.3	261	
11/10/2020 7:00	11/10/2020 8:00	44	39	30	56	56	50	0.3	41.6	2329	12.5	257	2593	11.4	249	1389	8.2	251	1816	10.3	256	2613	11.0	265	
11/10/2020 8:00	11/10/2020 9:00	38	39	30	54	55	48	0.3	45.6	2734	11.1	252	1334	10.2	246	1073	7.4	250	2035	9.2	251	2041	9.3	258	
11/10/2020 9:00	11/10/2020 10:00	34	35	28	49	52	44	0.7	53	725	5.9	228	313	4.4	226	266	4.7	250	630	6.1	241	457	5.4	247	
11/10/2020 10:00	11/10/2020 11:00	36	38	30	51	53	46	1.5	63.3	929	6.8	235	707	6.1	232	412	5.4	257	580	6.0	248	547	5.8	254	
11/10/2020 11:00	11/10/2020 12:00	36	39	28	51	54	45	1.9	65	459	5.3	234	332	4.8	232	285	4.8	254	269	4.7	243	229	4.4	251	
11/10/2020 12:00	11/10/2020 13:00	43	45	30	59	59	46	1.9	68.1	103	3.6	236	119	3.8	224	273	4.7	236	322	4.9	232	332	4.8	237	
11/10/2020 13:00	11/10/2020 14:00	44	48	30	60	63	46	2.0	69.4	68	3.4	222	217	4.4	210	215	4.3	235	254	4.6	232	175	4.0	239	
11/10/2020 14:00	11/10/2020 15:00	50	49	31	54	56	45	1.7	71	111	4.2	226	225	4.6	214	232	4.4	240	384	5.1	232	281	4.5	241	
11/10/2020 15:00	11/10/2020 16:00	39	43	24	51	55	43	1.2	67.8	313	5.5	228	41	5.2	224	338	4.9	242	350	5.1	237	150	3.8	241	
11/10/2020 16:00	11/10/2020 17:00	41	44	25	53	56	43	0.7	59.8	347	4.7	218	766	6.4	208	313	4.8	230	602	5.6	223	283	4.4	228	
11/10/2020 17:00	11/10/2020 18:00	34	37	25	47	49	44	0.1	55.3	381	5.0	216	1132	7.2	205	604	5.9	225	1194	7.0	217	564	5.5	217	
11/10/2020 18:00	11/10/2020 19:00	39	42	27	56	56	45	0.0	53.2	911	6.2	217	1679	8.3	207	1554	8.2	223	2277	9.1	215	1389	7.2	217	
11/10/2020 19:00	11/10/2020 20:00	38	39	30	55	57	48	0.3	53	2324	9.1	219	2000	8.6	212	1137	7.3	233	2551	9.9	225	1879	8.0	226	
11/10/2020 20:00	11/10/2020 21:00	37	36	29	53	54	48	0.4	55.9	1840	8.1	217	2352	9.7	211	2030	9.2	227	3151	12.1	225	2291	9.0	223	
11/10/2020 21:00	11/10/2020 22:00	33	34	30	51	54	47	0.1	56	952	6.5	218	2097	9.3	207	2210	9.8	225	3091	11.3	222	2108	8.6	219	
11/10/2020 22:00	11/10/2020 23:00	32	33	30	50	51	48	0.4	56.5	2341	9.2	218	2954	11.4	213	2902	11.3	227	3195	12.8	227	2863	10.3	225	
11/10/2020 23:00	11/11/2020 0:00	32	34	31	50	52	48	0.6	58.5	2850	10.3	217	3099	12.0	213	2533	10.2	227	3188	12.7	225	2764	9.9	224	
11/11/2020 0:00	11/11/2020 1:00	33	34	30	51	53	48	1.0	58.4	2859	10.6	215	3131	12.5	211	1829	8.6	226	2793	10.6	221	1704	7.9	223	
11/11/2020 1:00	11/11/2020 2:00	32	33	30	50	52	47	0.9	59.2	2089	8.8	215	2685	10.5	209	866	6.5	231	1866	8.3	222	714	6.1	226	
11/11/2020 2:00	11/11/2020 3:00	35	36	33	53	55	50	1.6	59.5	2190	9.2	219	2428	10.0	212	1241	7.5	237	2557	10.0	225	1224	7.2	228	
11/11/2020 3:00	11/11/2020 4:00	36	38	34	54	55	51	2.0	59.2	2265	9.3	220	2582	10.5	213	1983	9.0	232	2719	10.7	226	1637	7.8	231	
11/11/2020 4:00	11/11/2020 5:00	35	36	33	53	55	51	1.5	59	2127	9.0	220	2694	10.7	213	1731	8.5	233	2602	10.1	226	1601	7.8	232	
11/11/2020 5:00	11/11/2020 6:00	37	37	32	52	54	49	1.4	58.9	1674	8.1	216	2620	10.4	209	1092	7.2	230	1735	8.2	223	762	6.2	228	
11/11/2020 6:00	11/11/2020 7:00	38	40	33	54	56	50	2.1	59.4	1957	8.7	215	2847	11.4	206	1347	7.7	229	2134	8.9	221	979	6.8	226	
11/11/2020 7:00	11/11/2020 8:00	46	44	36	59	60	52	2.1	60.6	1548	8.1	222	2080	9.3	211	1412	7.8	235	1758	8.2	227	637	6.1	235	
11/11/2020 8:00	11/11/2020 9:00	40	42	35	56	58	50	2.6	62.6	1285	7.5	223	1447	7.8	214	1333	7.7	238	1675	8.3	231	893	6.6	237	
11/11/2020 9:00	11/11/2020 10:00	42	44	36	58	60	51	2.9	63.4	1802	8.5	225	1393	7.8	218	1802	8.8	237	2175	9.3	233	1449	7.8	240	
11/11/2020 10:00	11/11/2020 11:00	46	49	39	62	64	53	3.5	65.4	1879	8.8	223	2114	9.4	216	2180	9.7	236	2454	10.1	231	1594	8.1	235	
11/11/2020 11:00	11/11/2020 12:00	47	50	39	61	64	52	3.7	67.1	1852	8.7	220	2372	10.3	212	1662	8.6	238	1938	8.9	228	1058	6.9	235	
11/11/2020 12:00	11/11/2020 13:00	48	50	40	62	64	53	3.4	67.1	2008	9.1	213	2648	11.5	208	1617	9.7	231	2613	10.5	224	1408	7.9	231	
11/11/2020 13:00	11/11/2020 14:00	43	47	38	59	62	52	3.1	67.1	1889	8.6	214	2732	11.4	206	2430	10.4	228	2714	10.9	223	1688	8.4	228	
11/11/2020 14:00	11/11/2020 15:00	43	46	36	58	61	50	3.1	67.1	1654	8.1	214	2611	10.8	207	1980	9.1	229	2697	10.6	222	1246	7.4	228	
11/11/2020 15:00	11/11/2020 16:00	40	41	33	55	56	50	2.2	66.3	1355	9.2	212	1914	11.3	207	1827	8.7	229	2433	9.8	222	934	6.8	228	
11/11/2020 16:00	11/11/2020 17:00	49	43	34	55	57	50	2.2	66																

### APPENDIX B

**Table B-4: Hourly Monitoring Data for Location 5**

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/12/2020 12:00	11/12/2020 13:00	35	38	28	50	52	47	1.4	0.02	45.3	855	7.0	313	913	7.0	311	379	5.3	308	604	6.3	315	683	6.3	315
11/12/2020 13:00	11/12/2020 14:00	40	42	29	53	56	48	1.3	Trace	45.5	1452	8.1	306	1668	8.6	305	253	7.1	312	982	7.3	308	1053	7.2	308
11/12/2020 14:00	11/12/2020 15:00	38	41	33	53	56	50	1.8	Trace	45.1	2400	10.2	312	2621	10.7	310	-12	10.5	323	2554	10.6	314	2716	10.8	316
11/12/2020 15:00	11/12/2020 16:00	37	39	32	53	55	50	1.2		44.3	2009	9.5	315	2175	9.8	312	1095	7.8	313	1641	8.7	318	1780	8.8	317
11/12/2020 16:00	11/12/2020 17:00	38	38	29	52	54	48	1.2		44.3	1082	7.5	322	1209	8.2	321	877	6.6	318	1234	7.9	326	1296	7.9	325
11/12/2020 17:00	11/12/2020 18:00	42	39	29	55	55	48	1.4		44	1203	7.6	323	1369	8.4	321	672	6.0	312	1233	7.7	318	1582	8.2	320
11/12/2020 18:00	11/12/2020 19:00	38	36	27	55	52	46	0.7		42.9	846	6.6	335	1100	7.5	330	554	5.6	325	1034	7.2	334	1023	7.3	331
11/12/2020 19:00	11/12/2020 20:00	43	35	25	56	52	44	0.9		41.1	720	6.0	330	836	6.4	326	265	4.7	323	485	5.9	330	434	5.5	328
11/12/2020 20:00	11/12/2020 21:00	44	39	27	56	56	46	1.0		38.6	1554	8.1	338	1386	7.5	332	240	4.5	282	860	6.8	344	247	4.8	346
11/12/2020 21:00	11/12/2020 22:00	30	32	24	48	50	42	1.2		39.5	1245	8.2	235	1155	7.2	341	107	4.0	229	425	5.5	233	182	4.2	116
11/12/2020 22:00	11/12/2020 23:00	23	24	20	42	44	39	0.8		37.2	437	5.7	65	480	5.4	292	110	4.0	124	167	4.6	11	142	4.1	71
11/12/2020 23:00	11/13/2020 0:00	25	27	22	44	46	42	0.3		34.9	273	4.9	26	298	5.2	36	51	3.7	36	167	4.6	41	193	4.6	39
11/13/2020 0:00	11/13/2020 1:00	23	25	21	43	45	40	0.4		33.5	249	4.9	55	315	5.6	59	31	3.6	44	180	5.1	57	196	5.0	54
11/13/2020 1:00	11/13/2020 2:00	23	24	20	41	43	39	0.3		31.6	548	6.1	67	621	6.6	66	265	5.1	64	528	6.3	73	524	6.3	73
11/13/2020 2:00	11/13/2020 3:00	25	26	23	42	43	40	0.4		30.4	1308	7.9	76	1464	8.5	73	914	7.1	75	1326	8.2	81	1258	8.1	82
11/13/2020 3:00	11/13/2020 4:00	25	26	23	42	44	40	0.4		30.3	1591	8.4	85	1561	8.7	80	674	6.6	86	1357	8.1	88	1321	8.2	90
11/13/2020 4:00	11/13/2020 5:00	29	29	23	45	47	41	0.3		31.2	1475	8.3	84	1400	8.4	79	513	6.1	88	937	7.3	87	945	7.4	90
11/13/2020 5:00	11/13/2020 6:00	37	36	25	50	53	43	0.3		31.8	1435	8.4	76	1459	8.7	72	766	6.9	80	965	7.6	82	819	7.2	82
11/13/2020 6:00	11/13/2020 7:00	33	35	27	48	51	44	0.4		33.6	892	7.0	69	947	7.5	66	537	6.2	76	690	6.8	80	587	6.5	79
11/13/2020 7:00	11/13/2020 8:00	41	42	31	57	60	49	0.2		34.7	149	6.8	74	155	7.1	71	162	5.5	75	273	6.6	79	238	6.5	81
11/13/2020 8:00	11/13/2020 9:00	44	45	27	52	55	45	0.5		34.6	126	7.2	71	382	7.5	69	67	5.5	70	115	6.5	78	106	6.5	79
11/13/2020 9:00	11/13/2020 10:00	45	47	29	54	56	46	0.4	0.01	35.1	62	6.3	61	121	7.0	60	29	5.2	61	19	6.0	73	17	5.8	73
11/13/2020 10:00	11/13/2020 11:00	48	45	27	55	54	43	0.4	0.01	34.9	8	5.2	45	11	6.1	52	37	4.1	51	-3	5.2	58	-6	5.0	58
11/13/2020 11:00	11/13/2020 12:00	38	38	27	48	49	43	0.1	0.01	35.5	14	4.6	56	67	5.2	56	19	3.9	61	29	4.8	71	30	4.6	71
11/13/2020 12:00	11/13/2020 13:00	40	41	27	51	51	44	0.2	0.02	36.2	44	4.4	60	124	5.1	58	52	4.1	68	117	4.8	77	83	4.4	75
11/13/2020 13:00	11/13/2020 14:00	40	40	29	51	52	43	0.3	0.05	36.4	17	3.8	46	69	4.2	48	26	3.7	60	79	4.4	70	56	4.1	64
11/13/2020 14:00	11/13/2020 15:00	43	40	26	58	54	44	0.2	0.02	36.9	86	4.1	77	99	4.6	74	62	4.1	81	113	4.6	87	76	4.3	86
11/13/2020 15:00	11/13/2020 16:00	38	38	26	52	50	41	0.5	0.02	37.4	-5	2.0	99	-6	2.0	84	-13	1.3	147	-6	1.6	169	-3	1.5	93
11/13/2020 16:00	11/13/2020 17:00	35	37	25	45	49	40	0.1	0.01	37.3	-9	1.5	164	-9	1.4	163	-14	1.3	239	-11	2.3	196	-9	2.2	184
11/13/2020 17:00	11/13/2020 18:00	34	36	24	45	48	41	0.4		37.4	46	3.3	202	63	3.6	189	31	2.6	243	84	3.7	216	103	3.6	213
11/13/2020 18:00	11/13/2020 19:00	34	36	25	48	51	43	0.4		37.5	774	6.3	247	825	6.1	238	291	5.3	264	594	6.2	257	661	6.1	261
11/13/2020 19:00	11/13/2020 20:00	35	36	31	51	53	49	0.1		34.8	2797	11.3	268	2785	10.5	259	971	7.2	265	1810	8.8	268	1893	8.9	276
11/13/2020 20:00	11/13/2020 21:00	35	36	33	53	54	50	0.2		35.2	3198	12.7	275	3200	12.5	269	1750	8.9	273	2622	10.4	275	2707	10.5	282
11/13/2020 21:00	11/13/2020 22:00	37	34	31	54	53	49	1.1	0.01	34.6	3200	14.3	279	3200	14.2	275	2384	9.9	275	3194	12.2	277	3196	12.2	283
11/13/2020 22:00	11/13/2020 23:00	40	43	33	54	57	50	2.6		37.2	3200	14.1	288	3200	15.0	287	3141	12.0	282	3200	13.8	286	3200	13.8	293
11/13/2020 23:00	11/14/2020 0:00	44	48	36	58	61	53	3.1		37	3200	15.7	287	3200	16.4	286	3199	12.8	284	3200	14.8	288	3200	14.6	294
11/14/2020 0:00	11/14/2020 1:00	50	53	41	62	65	56	4.4		37.8	3200	16.3	284	3200	16.4	281	3200	13.9	278	3200	16.4	283	3199	16.6	291
11/14/2020 1:00	11/14/2020 2:00	49	53	43	61	64	56	4.5		37.5	3199	15.8	285	3200	16.1	282	3140	12.5	282	3200	14.6	286	3200	14.7	292
11/14/2020 2:00	11/14/2020 3:00	44	48	35	57	60	53	3.4		37	3185	12.9	298	3198	13.3	297	37	4.9	289	3098	12.1	294	3150	12.3	299
11/14/2020 3:00	11/14/2020 4:00	43	46	37	56	58	52	3.2		36.8	3140	12.1	290	3175	12.2	288	1995	9.3	284	2973	11.1	288	2982	10.9	292
11/14/2020 4:00	11/14/2020 5:00	34	35	33	51	52	48	1.2		33.9	2610	10.5	271	2665	10.3	264	1497	8.4	271	2289	9.8	273	2497	10.1	280
11/14/2020 5:00	11/14/2020 6:00	34	34	32	51	53	49	1.3		32.5	2905	10.9	276	3065	11.3	271	1073	7.4	273	2207	9.5	274	2255	9.5	280
11/14/2020 6:00	11/14/2020 7:00	37	37	33	52	54	50	1.6		33.5	2970	12.2	278	2951	11.8	273	1600	8.8	273	2392	10.1	278	2504	10.2	283
11/14/2020 7:00	11/14/2020 8:00	36	37	28	50	53	45	1.3		36.6	1461	8.3	292	1522	8.5	289	610	6.5	286	909	7.5	290	956	7.3	293
11/14/2020 8:00	11/14/2020 9:00	42	43	31	56	56	49	1.6		38	1798	8.9	290	1993	9.3	287	973	7.2	287	1282	8.1	291	1184	7.7	295
11/14/2020 9:00	11/14/2020 10:00	44	42	34	59	57	51	2.5	Trace	39.4	2157	9.6	290	2191	9.7	286	1469	8.3	288	1769	8.9	291	1711	8.7	294
11/14/2020 10:00	11/14/2020 11:00	43	46	34	56	59	48	2.9	Trace	39.9	935	7.2	288	929	7.2	284	703	6.5	289	778	7.0	292	742	6.8	295
11/14/2020 11:00	11/14/2020 12:00	44	46	34	55	58	50	2.8		40.2	1476	8.4	301	1424	8.2	294	1063	7.4	290	1580	8.6	290	1591	8.5	295
11/14/2020 12:00	11/14/2020 13:00	45	49	36	58	61	52	3.5		40.4	1435	8.3	299	1323	8.1	293	1598	8.3	294	1423	8.4	301	1089	7.6	303
11/14/2020 13:00	11/14/2020 14:00	47	51	37	59	62	52	3.5		40.7	1885	9.3	298	1834	9.1	290	1411	8.0	295	1656	8.7	296	1791	8.8	300
11/14/2020 14:00	11/14/2020 15:00	42	45	34	55	58	50	2.6		40.7	2160	9.8	296	2141	9.7	296	1710	8.5	293	1448	8.4	3			

APPENDIX B

**Table B-4: Hourly Monitoring Data for Location 5**

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/15/2020 11:00	11/15/2020 12:00	38	39	26	51	52	43	1.6		36.6	455	6.0	141	531	6.6	135	319	5.6	128	455	5.9	131	426	5.9	138
11/15/2020 12:00	11/15/2020 13:00	41	45	29	53	57	44	2.1		36.8	735	7.0	142	827	7.5	136	427	6.0	124	399	5.8	126	401	5.8	134
11/15/2020 13:00	11/15/2020 14:00	40	39	28	50	53	44	2.0		36.7	713	6.8	140	672	6.9	133	354	5.8	116	281	5.4	119	312	5.6	127
11/15/2020 14:00	11/15/2020 15:00	40	43	28	52	55	45	2.2		36.9	1062	7.5	130	975	7.6	122	701	6.7	117	873	7.1	119	905	7.3	129
11/15/2020 15:00	11/15/2020 16:00	39	42	30	53	55	45	1.7		37.6	2204	9.8	137	2202	10.0	131	1629	8.7	126	2281	9.5	126	2168	9.6	132
11/15/2020 16:00	11/15/2020 17:00	39	41	28	52	54	44	1.6		38.2	2388	10.2	131	2502	10.4	124	1253	8.0	119	1897	9.0	120	1911	9.2	127
11/15/2020 17:00	11/15/2020 18:00	37	37	28	51	51	44	0.9		38.7	2901	11.5	134	2814	11.3	127	1914	9.0	124	2750	10.4	123	2675	10.5	130
11/15/2020 18:00	11/15/2020 19:00	41	43	28	52	55	44	2.0	0.01	39.3	2606	10.9	140	2604	11.1	135	2186	9.6	130	2804	11.0	131	2920	11.5	138
11/15/2020 19:00	11/15/2020 20:00	40	43	33	50	52	43	1.4	0.07	38.5	3189	13.9	135	3194	14.1	129	2871	11.1	125	3148	12.2	126	3147	12.3	133
11/15/2020 20:00	11/15/2020 21:00	45	48	35	50	52	45	1.8	0.2	40.1	3192	13.6	133	3170	13.5	126	2821	11.0	122	3136	12.8	125	3132	13.0	130
11/15/2020 21:00	11/15/2020 22:00	45	47	38	53	55	46	2.5	0.13	42.2	3170	13.1	139	3180	13.6	133	2083	9.3	123	2971	11.1	130	3009	11.6	139
11/15/2020 22:00	11/15/2020 23:00	58	61	44	69	73	48	4.6	0.16	43.8	2940	15.9	224	2515	15.9	220	2302	13.3	222	2888	15.3	224	2413	15.9	232
11/15/2020 23:00	11/16/2020 0:00	52	56	41	66	68	56	4.3	0.09	45.2	3189	16.4	269	3168	16.0	265	3169	14.3	272	3186	15.5	271	3182	15.7	278
11/16/2020 0:00	11/16/2020 1:00	42	45	36	58	60	54	3.1	0.01	44.1	3172	13.3	266	3162	13.3	262	2989	12.0	270	3153	13.2	269	3171	13.6	276
11/16/2020 1:00	11/16/2020 2:00	37	38	34	56	57	53	1.9	0.01	43.3	3194	13.4	263	3163	12.8	257	2668	10.8	264	3168	12.7	265	3192	13.3	272
11/16/2020 2:00	11/16/2020 3:00	35	36	33	54	55	51	1.7		43.3	3116	12.6	240	2559	10.7	233	2344	9.8	245	3156	12.1	246	3113	11.7	251
11/16/2020 3:00	11/16/2020 4:00	39	42	33	56	59	53	2.3		43.1	3152	12.6	253	3063	12.1	247	2848	11.4	258	3170	13.1	257	3088	13.0	263
11/16/2020 4:00	11/16/2020 5:00	40	43	34	57	59	53	2.6		42.5	3168	13.7	252	3169	13.1	246	3169	11.6	258	3186	13.5	257	3159	13.4	263
11/16/2020 5:00	11/16/2020 6:00	42	45	34	58	60	52	2.6		42.4	3168	13.3	246	3134	12.8	239	2813	11.2	253	3156	12.9	252	2995	12.4	258
11/16/2020 6:00	11/16/2020 7:00	42	46	34	57	60	52	2.9		41.2	3196	14.4	256	3189	13.5	250	2787	11.2	261	3179	13.0	259	3192	13.0	265
11/16/2020 7:00	11/16/2020 8:00	42	45	35	58	60	53	2.9		41.2	3080	12.4	246	2819	12.1	242	2885	11.1	254	1738	13.1	256	3084	12.5	259
11/16/2020 8:00	11/16/2020 9:00	49	52	37	63	65	56	4.0		42.2	2988	14.0	251	1745	14.0	248	3078	13.2	259	3139	14.6	257	3137	15.1	265
11/16/2020 9:00	11/16/2020 10:00	52	55	40	67	69	57	4.6		43.4	2813	13.1	256	2947	13.1	248	3107	13.9	260	3126	15.4	260	3112	14.9	266
11/16/2020 10:00	11/16/2020 11:00	51	55	39	65	68	55	4.5		43.8	2966	13.0	260	2877	12.1	255	2684	11.2	265	3039	12.9	265	2934	12.3	272
11/16/2020 11:00	11/16/2020 12:00	51	54	41	64	67	56	4.5		43.4	3107	14.0	270	3037	13.3	265	3117	13.3	275	3106	13.8	274	3056	13.1	281
11/16/2020 12:00	11/16/2020 13:00	50	54	39	64	67	55	4.3		43.2	2951	13.0	262	3011	13.6	256	3076	13.3	268	3073	13.2	268	3047	13.6	273
11/16/2020 13:00	11/16/2020 14:00	51	55	41	64	67	56	4.4		43.2	2951	13.0	258	3006	13.4	252	3066	13.0	266	3068	13.6	260	3121	14.3	267
11/16/2020 14:00	11/16/2020 15:00	49	53	43	64	67	57	4.6		41.9	2952	12.9	249	2902	12.5	245	3048	13.0	258	3121	14.2	256	3063	13.1	262
11/16/2020 15:00	11/16/2020 16:00	50	54	42	64	68	56	4.6		40.7	3131	13.3	242	3074	12.9	237	3014	12.7	254	3166	13.8	251	3090	12.8	258
11/16/2020 16:00	11/16/2020 17:00	47	50	39	62	65	55	4.0		40.2	3061	12.4	243	2928	11.6	237	2957	11.8	254	3157	13.4	251	3090	12.7	257
11/16/2020 17:00	11/16/2020 18:00	43	46	36	60	62	54	3.1		40.5	2656	11.5	252	2673	11.5	246	2515	11.2	259	2901	12.4	256	2781	12.1	262
11/16/2020 18:00	11/16/2020 19:00	50	54	37	64	66	55	4.1		40.2	2750	11.2	262	2732	11.6	256	2701	11.2	268	2987	12.6	266	3061	13.1	272
11/16/2020 19:00	11/16/2020 20:00	44	47	34	58	60	54	2.8		39.2	2886	11.6	273	2828	11.2	268	2836	11.4	274	3045	12.5	273	3068	12.5	279
11/16/2020 20:00	11/16/2020 21:00	36	36	33	56	57	53	1.3		37.9	3033	11.7	269	2929	11.1	263	2528	10.4	270	2961	11.7	269	3092	12.1	276
11/16/2020 21:00	11/16/2020 22:00	38	37	33	57	59	54	1.5		37.4	3013	11.5	261	2889	10.9	255	2182	9.6	265	2967	11.4	264	3110	12.0	270
11/16/2020 22:00	11/16/2020 23:00	35	36	24	52	57	36	1.5		36.7	421	10.3	260	417	10.5	254	371	10.0	262	496	12.2	262	524	12.5	271
11/16/2020 23:00	11/17/2020 0:00	34	37	25	54	57	37	1.8		36.8	1827	10.9	254	1785	10.9	248	1430	10.0	258	1908	12.4	257	1927	12.2	265
11/17/2020 0:00	11/17/2020 1:00	35	36	32	54	56	51	1.6		36.6	2500	9.9	250	2552	10.0	244	1912	9.0	253	2986	11.4	255	2919	10.9	260
11/17/2020 1:00	11/17/2020 2:00	35	37	32	54	56	52	1.9		34.8	3077	11.6	256	2955	11.0	251	1904	9.0	259	2764	10.8	259	2757	10.8	265
11/17/2020 2:00	11/17/2020 3:00	37	36	32	54	56	52	1.6		35.6	2962	11.8	261	2732	11.0	255	1896	9.1	264	2420	10.7	263	2434	10.5	269
11/17/2020 3:00	11/17/2020 4:00	42	41	31	53	54	50	1.4		31	2538	9.9	251	2208	9.2	244	1110	7.3	252	2110	9.3	253	2083	9.2	258
11/17/2020 4:00	11/17/2020 5:00	31	33	29	49	51	46	1.2		32.7	2115	9.2	254	1801	8.6	247	930	7.1	257	1328	7.9	255	1408	8.1	261
11/17/2020 5:00	11/17/2020 6:00	38	36	29	51	52	46	0.5		29.7	2013	9.0	253	1714	8.5	246	683	6.6	252	1213	7.9	253	1268	7.8	257
11/17/2020 6:00	11/17/2020 7:00	46	45	29	62	56	46	0.9		28.8	2177	9.2	246	1660	8.1	235	533	6.1	242	1195	7.8	243	1421	8.2	249
11/17/2020 7:00	11/17/2020 8:00	40	42	30	54	56	46	1.0		29.6	2427	9.8	242	1759	8.6	233	566	6.4	245	503	7.8	246	1337	7.9	247
11/17/2020 8:00	11/17/2020 9:00	39	39	30	51	53	47	2.0		33.6	1687	8.5	248	861	8.3	243	593	6.3	252	963	7.5	250	898	6.9	255
11/17/2020 9:00	11/17/2020 10:00	41	43	31	54	58	46	3.1		36.8	669	6.4	249	303	6.1	246	555	6.2	254	799	7.0	252	619	6.3	259
11/17/2020 10:00	11/17/2020 11:00	42	45	32	54	57	47	3.0		37.7	724	6.7	268	-10	7.4	265	633	6.5	274	832	7.1	269	819	6.8	274
11/17/2020 11:00	11/17/2020 12:00	42	45	34	56	58	48	3.1		38	828	6.9	261	802	6.7	257	780	7.0	270	990	7.3	263	1054	7.3	267
11/17/2020 12:00	11/17/2020 13:00	44	47	35	56	59	48	3.5		39.1	1324	8.0													

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/18/2020 10:00	11/18/2020 11:00	47	51	39	61	64	54	3.3	22.7	3017	12.1	317	2939	11.9	313	2523	10.2	314	-6	9.1	276	2827	11.4	321	
11/18/2020 11:00	11/18/2020 12:00	49	53	38	62	65	53	3.4	23.7	3057	12.8	315	3049	12.3	312	2787	10.8	307	-21	11.1	321	2778	11.2	317	
11/18/2020 12:00	11/18/2020 13:00	51	55	39	64	67	54	4.1	23.8	2576	11.0	312	2917	12.0	305	2390	9.9	311	-20	10.1	325	2646	10.6	314	
11/18/2020 13:00	11/18/2020 14:00	47	51	36	60	63	52	3.6	25.8	2944	11.7	310	2775	11.2	310	2219	9.2	309	-19	9.5	326	2173	9.5	321	
11/18/2020 14:00	11/18/2020 15:00	46	50	36	59	62	52	3.4	26.5	1732	9.9	312	2338	10.1	308	1374	7.8	308	-22	9.5	314	2356	10.1	311	
11/18/2020 15:00	11/18/2020 16:00	47	51	35	59	62	52	3.5	25.2	1642	10.4	299	1159	11.1	297	2449	10.0	299	-13	9.6	313	2792	11.0	308	
11/18/2020 16:00	11/18/2020 17:00	43	47	33	57	59	52	2.5	23.6	3038	12.1	306	3042	12.0	305	2157	9.3	304	-19	8.9	318	2542	10.3	310	
11/18/2020 17:00	11/18/2020 18:00	43	41	30	58	60	50	1.0	22.4	1799	9.1	309	2103	9.7	306	1242	7.9	304	695	9.1	309	1981	9.2	310	
11/18/2020 18:00	11/18/2020 19:00	35	37	26	52	53	46	1.3	21	1129	8.0	317	1027	8.1	316	678	6.7	314	883	7.6	317	990	7.6	317	
11/18/2020 19:00	11/18/2020 20:00	32	33	24	49	50	45	0.6	19.4	753	7.1	317	1165	8.2	318	404	5.9	314	695	7.0	321	753	7.0	319	
11/18/2020 20:00	11/18/2020 21:00	35	37	25	52	56	45	0.9	18.8	969	7.7	316	964	7.6	314	342	5.8	311	430	6.5	315	422	6.4	315	
11/18/2020 21:00	11/18/2020 22:00	40	34	24	53	54	43	0.3	15.8	710	7.1	315	767	7.2	312	435	6.1	307	753	7.4	314	736	7.1	314	
11/18/2020 22:00	11/18/2020 23:00	28	28	23	47	49	43	0.2	14.6	811	7.3	309	844	7.2	306	423	6.2	299	667	7.1	307	655	6.8	308	
11/18/2020 23:00	11/19/2020 0:00	36	34	23	50	49	43	0.2	13.8	690	7.0	306	688	6.8	304	302	5.9	296	486	6.6	306	485	6.3	306	
11/19/2020 0:00	11/19/2020 1:00	25	26	23	45	48	42	0.2	13.1	669	7.0	304	761	7.2	301	325	6.0	295	621	7.0	303	602	6.6	304	
11/19/2020 1:00	11/19/2020 2:00	24	25	21	45	48	41	0.3	12.8	359	5.8	294	347	5.6	291	79	4.6	286	261	5.6	293	262	5.3	297	
11/19/2020 2:00	11/19/2020 3:00	22	24	20	43	46	39	0.3	13.2	327	5.6	299	337	5.7	299	14	3.8	284	151	4.9	297	191	5.0	300	
11/19/2020 3:00	11/19/2020 4:00	28	26	22	46	49	42	0.3	16.1	385	6.1	284	472	6.3	280	172	5.3	277	312	5.8	285	303	5.6	288	
11/19/2020 4:00	11/19/2020 5:00	24	27	20	42	44	39	0.5	18.7	76	4.4	250	69	4.2	233	2	3.5	246	31	4.1	245	30	3.9	250	
11/19/2020 5:00	11/19/2020 6:00	37	33	23	49	49	41	0.7	19.6	116	4.4	220	84	4.1	209	-8	3.1	230	11	3.6	232	7	3.3	232	
11/19/2020 6:00	11/19/2020 7:00	37	39	25	51	53	44	0.7	20.4	175	4.5	213	324	5.4	199	32	3.9	223	85	4.3	215	98	4.2	216	
11/19/2020 7:00	11/19/2020 8:00	37	37	27	51	53	45	1.0	21.2	124	4.6	204	459	5.9	195	64	4.4	223	97	4.5	209	112	4.4	209	
11/19/2020 8:00	11/19/2020 9:00	37	40	29	55	58	46	1.8	22.8	487	6.0	194	325	6.5	194	143	4.6	219	150	4.8	214	249	5.0	209	
11/19/2020 9:00	11/19/2020 10:00	40	42	29	60	58	46	1.5	25.7	499	6.0	190	570	6.4	187	283	5.1	219	394	5.4	202	381	5.4	207	
11/19/2020 10:00	11/19/2020 11:00	42	41	29	55	56	46	1.8	28.9	702	6.5	186	765	6.9	184	160	4.7	208	861	5.8	196	691	6.1	197	
11/19/2020 11:00	11/19/2020 12:00	42	44	30	53	57	47	1.8	31.6	1181	7.4	185	1339	7.8	182	207	5.1	215	507	5.6	197	569	5.9	196	
11/19/2020 12:00	11/19/2020 13:00	42	45	32	56	58	48	2.2	34.7	1162	7.5	184	1230	7.8	183	163	4.8	221	436	5.5	200	966	6.8	196	
11/19/2020 13:00	11/19/2020 14:00	40	43	34	55	57	48	2.3	37.3	1347	7.8	185	1408	8.1	184	390	5.3	205	1113	6.9	192	1439	7.7	193	
11/19/2020 14:00	11/19/2020 15:00	41	43	36	55	58	49	2.1	38.2	2158	9.4	184	2188	9.5	181	179	4.5	199	1063	6.8	188	1562	7.9	191	
11/19/2020 15:00	11/19/2020 16:00	41	42	34	53	55	48	1.6	37.1	1252	8.9	189	895	9.3	186	265	5.1	210	1136	7.0	193	1556	7.9	194	
11/19/2020 16:00	11/19/2020 17:00	41	43	31	54	56	47	1.9	36.4	1314	7.4	201	1762	8.8	197	666	6.1	218	806	6.3	209	505	5.6	211	
11/19/2020 17:00	11/19/2020 18:00	43	46	36	58	61	52	3.0	36.6	2935	11.0	203	3091	12.9	198	1674	8.4	219	1897	8.5	211	1350	7.4	213	
11/19/2020 18:00	11/19/2020 19:00	46	50	40	61	64	54	3.8	37.2	2760	10.6	208	3047	12.6	202	2421	10.0	221	2273	9.3	215	1866	8.3	216	
11/19/2020 19:00	11/19/2020 20:00	45	48	39	60	63	53	3.4	37.3	1981	8.5	209	2733	10.8	202	2260	9.4	222	2082	8.9	217	1400	7.4	217	
11/19/2020 20:00	11/19/2020 21:00	46	46	37	59	61	53	2.8	37.6	1545	7.6	213	2362	9.6	203	1464	8.0	224	1477	7.6	218	947	6.6	219	
11/19/2020 21:00	11/19/2020 22:00	41	44	37	57	59	52	2.7	38.1	2776	10.4	211	3021	11.9	205	1689	8.4	226	2329	9.5	221	1359	7.3	224	
11/19/2020 22:00	11/19/2020 23:00	44	45	39	60	61	55	2.9	38.7	3058	11.6	214	3128	12.2	209	2422	9.7	230	3171	13.1	226	2541	9.4	226	
11/19/2020 23:00	11/20/2020 0:00	40	43	36	57	59	53	2.2	39.5	3148	12.2	210	3167	12.7	207	1701	8.3	227	2937	11.2	220	1470	7.3	222	
11/20/2020 0:00	11/20/2020 1:00	37	39	34	55	57	51	2.1	39.5	2953	10.7	211	3034	11.3	207	959	6.8	231	1867	8.3	221	700	5.9	226	
11/20/2020 1:00	11/20/2020 2:00	37	38	34	57	59	54	1.4	40	1646	7.8	219	1836	8.4	210	1157	7.2	232	2644	10.1	225	1907	8.1	228	
11/20/2020 2:00	11/20/2020 3:00	35	36	34	56	58	54	0.7	40.6	2508	9.5	223	1605	7.7	216	1664	8.2	236	2979	11.0	232	2993	10.8	234	
11/20/2020 3:00	11/20/2020 4:00	38	39	35	57	59	54	1.7	41.7	2499	9.3	219	2184	8.8	211	1498	7.9	235	2780	10.4	229	2532	9.1	231	
11/20/2020 4:00	11/20/2020 5:00	40	42	36	57	59	54	2.2	42.3	2827	10.3	221	2257	8.7	213	2139	9.2	233	3150	12.8	230	3125	13.2	234	
11/20/2020 5:00	11/20/2020 6:00	39	41	35	56	58	53	1.8	43.1	2735	9.7	219	2226	8.7	211	1454	7.8	233	3155	12.2	227	3187	13.7	232	
11/20/2020 6:00	11/20/2020 7:00	38	39	33	55	56	50	1.2	42.9	3018	11.0	216	2917	10.1	207	406	5.3	233	1733	8.1	221	1536	7.6	224	
11/20/2020 7:00	11/20/2020 8:00	38	39	33	54	56	51	1.6	42.9	3097	11.4	219	2929	10.3	209	503	5.5	233	653	7.3	227	813	6.1	227	
11/20/2020 8:00	11/20/2020 9:00	38	39	33	55	57	51	0.9	42.7	2910	10.8	223	965	9.2	221	556	5.7	233	1001	7.1	231	1270	7.3	234	
11/20/2020 9:00	11/20/2020 10:00	40	41	34	56	57	52	1.3	44.1	2866	11.3	226	2189	8.8	216	1304	7.4	236	2249	9.9	231	2393	10.7	236	
11/20/2020 10:00	11/20/2020 11:00	37	38	34	54	56	51	1.0	45.5	1796	7.9	220	1318	7.3	213	598	6.0	238	1105	7.0	230	1179	6.8	232	
11/20/2020 11:00	11/20/2020 12:00	37	40	33	54	55	51	0.6	45.1	2181	8.7	220	1400	7.2	213	392	5.1	235	1738	8.1	230	2123	8.6	233	
11/20/2020 12:00	11/20/2020 13:00	41	42	33	55	58	49	1.5	50.3	459	4.9	218	572	5.5	213	861	6.6	232	1441	7.5	230	1213	6.7	234	
11/20/2020 13:00	11/20/2020 14:00	41	42	32	55	58	48	1.4	54	306	4.6	218	638	5.6	209</										

**APPENDIX B**

**Table B-4: Hourly Monitoring Data for Location 5**

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/21/2020 9:00	11/21/2020 10:00	47	51	33	59	62	50	3.6	50.3	1750	8.8	300	1320	8.1	298	1512	8.0	295	1846	9.1	298	1953	9.2	299	
11/21/2020 10:00	11/21/2020 11:00	46	50	38	59	62	53	3.6	50.3	2053	9.5	294	1967	9.3	285	2174	9.5	293	2494	10.3	293	2655	10.6	298	
11/21/2020 11:00	11/21/2020 12:00	48	52	36	61	64	55	3.4	51.2	2103	9.6	283	2314	9.9	278	2128	9.5	292	2030	9.5	295	1953	9.3	294	
11/21/2020 12:00	11/21/2020 13:00	45	47	33	56	59	49	2.8	51.2	1103	7.7	290	1009	7.3	280	1113	7.2	297	886	7.3	306	655	6.6	304	
11/21/2020 13:00	11/21/2020 14:00	43	46	32	57	60	48	2.9	51.9	632	6.4	298	657	6.4	288	551	5.9	292	810	6.9	290	885	6.9	293	
11/21/2020 14:00	11/21/2020 15:00	44	46	33	57	60	49	2.4	50.8	705	7.2	286	952	7.4	283	792	6.7	293	939	7.3	289	940	7.2	293	
11/21/2020 15:00	11/21/2020 16:00	36	38	27	50	52	45	1.8	48.6	515	6.9	306	298	6.8	304	502	5.8	294	655	6.7	301	570	6.3	305	
11/21/2020 16:00	11/21/2020 17:00	44	44	30	57	57	47	1.7	45.8	1185	7.9	308	1118	7.8	306	619	5.9	301	879	7.2	308	795	6.8	309	
11/21/2020 17:00	11/21/2020 18:00	37	39	24	51	53	44	0.9	43.8	894	7.1	316	1016	7.7	313	476	5.6	310	653	6.7	316	672	6.5	314	
11/21/2020 18:00	11/21/2020 19:00	32	31	23	47	49	42	0.7	41.6	327	5.3	325	358	5.7	321	120	3.9	319	288	5.3	326	314	5.3	326	
11/21/2020 19:00	11/21/2020 20:00	27	26	22	44	46	40	0.3	39.7	505	6.0	293	499	5.9	341	22	3.5	288	288	5.3	288	90	4.2	172	
11/21/2020 20:00	11/21/2020 21:00	28	29	23	45	47	42	0.5	38.5	535	6.1	340	760	6.8	333	241	4.8	336	682	6.7	346	199	4.9	350	
11/21/2020 21:00	11/21/2020 22:00	35	30	23	51	51	42	0.5	36.2	541	6.1	337	702	6.5	330	317	5.1	334	663	6.7	344	250	5.3	345	
11/21/2020 22:00	11/21/2020 23:00	32	30	22	46	48	41	0.3	32.8	579	6.4	338	700	6.8	333	318	5.1	331	715	6.7	339	434	5.8	338	
11/21/2020 23:00	11/22/2020 0:00	27	25	22	42	45	38	0.3	29.2	272	5.1	342	396	5.8	335	66	3.6	281	216	5.2	342	67	4.2	225	
11/22/2020 0:00	11/22/2020 1:00	23	24	21	40	43	36	0.3	27.6	225	5.1	344	224	5.1	338	-10	2.0	168	53	3.8	351	-9	2.7	68	
11/22/2020 1:00	11/22/2020 2:00	32	25	21	42	44	38	0.4	26.5	309	5.4	238	252	5.0	349	-6	2.8	22	38	3.8	12	90	3.9	10	
11/22/2020 2:00	11/22/2020 3:00	27	25	22	41	43	38	0.3	25.8	548	6.5	62	345	5.3	351	14	3.6	19	74	4.0	70	126	4.4	15	
11/22/2020 3:00	11/22/2020 4:00	23	24	21	41	43	37	0.4	24.5	429	6.2	18	294	5.7	4	70	3.8	29	212	5.1	31	162	4.8	30	
11/22/2020 4:00	11/22/2020 5:00	23	25	21	41	43	37	0.2	23.3	350	5.8	20	218	5.3	9	97	4.0	30	231	5.4	34	188	5.0	32	
11/22/2020 5:00	11/22/2020 6:00	30	25	21	39	43	34	0.3	22.5	171	5.0	61	112	5.0	60	60	4.0	70	170	5.0	70	134	4.9	71	
11/22/2020 6:00	11/22/2020 7:00	34	32	22	42	45	37	0.4	22.1	257	5.5	79	254	5.6	75	118	4.4	73	271	5.6	80	240	5.4	84	
11/22/2020 7:00	11/22/2020 8:00	41	40	23	49	52	40	0.4	22.3	241	5.5	93	237	5.7	88	126	4.7	78	140	5.5	88	250	5.5	91	
11/22/2020 8:00	11/22/2020 9:00	35	34	23	46	48	40	0.8	26.3	263	6.5	96	187	6.2	90	236	5.3	93	318	6.0	95	398	5.9	95	
11/22/2020 9:00	11/22/2020 10:00	38	39	27	49	51	43	1.6	33	262	5.5	102	327	5.7	98	33	458	6.2	106	642	6.7	101	556	6.5	103
11/22/2020 10:00	11/22/2020 11:00	37	38	27	50	52	44	1.5	33	296	5.5	106	324	5.8	98	340	5.8	102	407	6.0	99	350	5.7	99	
11/22/2020 11:00	11/22/2020 12:00	38	40	30	52	54	44	1.9	33.8	112	4.9	101	187	5.3	98	338	423	6.1	101	482	6.3	98	423	6.1	98
11/22/2020 12:00	11/22/2020 13:00	35	37	27	49	51	43	1.3	33.9	141	4.8	105	145	5.1	99	237	5.5	106	323	5.8	102	249	5.5	103	
11/22/2020 13:00	11/22/2020 14:00	32	35	25	47	49	43	1.2	33.9	273	5.5	109	301	5.8	100	348	5.8	101	379	6.0	103	313	5.8	109	
11/22/2020 14:00	11/22/2020 15:00	40	43	27	53	56	45	1.6	33.7	500	6.3	106	446	6.3	99	599	6.7	101	692	6.9	102	573	6.6	105	
11/22/2020 15:00	11/22/2020 16:00	35	36	25	51	50	42	1.1	33.5	577	6.6	102	595	6.7	96	779	7.1	98	1001	7.6	99	900	7.4	103	
11/22/2020 16:00	11/22/2020 17:00	40	42	24	54	56	42	0.7	33.4	871	7.2	105	870	7.3	99	882	7.1	103	1402	8.1	101	1268	8.0	104	
11/22/2020 17:00	11/22/2020 18:00	32	32	24	46	48	41	0.3	33.3	878	7.2	105	870	7.4	99	636	6.5	97	911	7.2	99	886	7.2	103	
11/22/2020 18:00	11/22/2020 19:00	33	36	26	45	47	42	0.3	32.5	1356	8.5	113	1343	8.7	106	697	7.0	105	1026	7.7	109	956	7.7	115	
11/22/2020 19:00	11/22/2020 20:00	35	35	23	47	45	39	0.6	32.4	411	8.5	111	414	8.7	105	285	6.9	104	307	7.7	108	225	7.7	114	
11/22/2020 20:00	11/22/2020 21:00	30	31	22	42	43	34	0.4	31.9	-7	9.1	119	-5	9.4	111	6	7.3	115	91	8.3	117	-5	7.9	123	
11/22/2020 21:00	11/22/2020 22:00	31	27	22	45	45	31	0.4	32.4	-7	8.3	113	-6	8.5	105	-12	5.8	102	-5	6.3	104	-7	6.1	109	
11/22/2020 22:00	11/22/2020 23:00	27	27	24	41	43	38	1.0	0.01	32.5	1623	8.6	104	1799	9.1	97	195	5.5	96	410	6.6	100	716	6.9	105
11/23/2020 0:00	11/23/2020 0:00	29	29	26	43	44	40	0.7	0.01	32.3	2472	10.1	109	2527	10.5	104	984	7.4	99	1640	8.6	105	1610	8.6	111
11/23/2020 0:00	11/23/2020 1:00	32	31	28	41	42	39	0.4	0.02	32.9	2558	10.5	116	2631	10.9	111	1288	7.9	107	2264	9.6	112	2134	9.6	117
11/23/2020 1:00	11/23/2020 2:00	32	35	29	42	44	38	0.3	0.01	33.1	1891	9.2	119	2020	9.7	114	1210	7.8	109	1930	8.9	111	1852	9.2	118
11/23/2020 2:00	11/23/2020 3:00	35	37	29	42	45	38	0.4	Trace	33.3	2272	9.9	119	2332	10.2	114	1529	8.4	109	2225	9.6	111	2181	9.7	116
11/23/2020 3:00	11/23/2020 4:00	34	37	29	42	43	39	0.6	Trace	34.6	2321	10.0	120	2308	10.2	115	1617	8.6	109	2234	9.5	111	2155	9.5	117
11/23/2020 4:00	11/23/2020 5:00	28	29	27	40	42	37	0.4	Trace	36.6	1653	8.6	122	1840	9.3	118	756	6.6	106	1191	7.4	112	1174	7.5	119
11/23/2020 5:00	11/23/2020 6:00	38	39	27	49	49	40	0.3	0.04	36.9	1826	8.9	130	1857	9.2	125	598	5.8	108	1147	7.0	116	1148	7.3	123
11/23/2020 6:00	11/23/2020 7:00	43	47	30	48	50	42	0.4	0.01	36.9	847	7.0	141	834	7.2	136	170	4.0	116	534	5.9	129	555	5.9	138
11/23/2020 7:00	11/23/2020 8:00	42	45	32	53	54	44	0.9	0.08	37.7	728	6.1	227	709	6.1	218	317	4.8	214	554	5.6	225	738	6.0	225
11/23/2020 8:00	11/23/2020 9:00	42	45	35	49	51	45	0.4	0.22	40.9	279	5.1	272	284	5.4	256	136	4.5	320	163	4.1	285	253	4.1	277
11/23/2020 9:00	11/23/2020 10:00	39	43	32	50	52	46	0.1	0.07	41.1	507	5.6	242	421	5.3	235	92	3.6	250	385	5.2	240	424	5.4	246
11/23/2020 10:00	11/23/2020 11:00	48	50	42	56	58	51	1.1	0.13	41.6	2896	12.3	263	2833	11.9	256	1850	8.9	263	2465	10.3	264	2510	10.4	271
11/23/2020 11:00	11/23/2020 12:00	44	47	36	57	60	52	2.5	0.05	44	2484	10.6	283	2537	10.5	279	2020	9.3	281	2550	10.5	282	2646	10.6	286
11/23/2020 12:00	11/23/2020 13:0																								

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/24/2020 8:00	11/24/2020 9:00	49	53	36	62	64	54	3.7	33.1	1717	13.2	306	1216	13.2	306	3066	13.0	303	2000	12.8	305	2982	12.3	308	
11/24/2020 9:00	11/24/2020 10:00	52	56	42	65	68	56	4.5	33.6	2719	11.9	301	2827	12.0	295	2641	11.6	300	2985	12.7	300	3022	13.3	305	
11/24/2020 10:00	11/24/2020 11:00	52	55	42	65	67	56	4.4	34.1	2873	11.7	303	2521	11.1	301	2371	9.9	297	2931	12.0	295	2883	12.2	300	
11/24/2020 11:00	11/24/2020 12:00	46	50	38	59	62	53	3.8	34.3	1988	9.4	301	1870	9.0	295	1842	8.8	294	2101	9.6	301	2113	9.4	305	
11/24/2020 12:00	11/24/2020 13:00	47	51	37	60	63	52	3.8	35.1	1626	8.7	286	1760	8.7	282	1948	9.2	284	2452	10.2	285	2324	9.8	291	
11/24/2020 13:00	11/24/2020 14:00	48	52	37	61	64	54	4.0	35.4	2273	9.9	288	2227	9.7	288	2361	10.0	288	2594	10.6	291	2721	10.9	294	
11/24/2020 14:00	11/24/2020 15:00	50	53	37	61	64	53	3.9	35.8	1241	9.0	291	1517	8.8	287	2098	9.3	291	2395	10.2	297	2387	9.9	302	
11/24/2020 15:00	11/24/2020 16:00	44	47	31	57	59	48	2.8	33.9	593	7.1	301	428	7.5	293	1274	7.8	295	1676	8.9	299	1656	8.6	303	
11/24/2020 16:00	11/24/2020 17:00	33	34	27	50	52	46	0.7	31	1040	7.8	304	1188	8.0	298	979	7.3	302	1164	8.1	307	1138	7.7	307	
11/24/2020 17:00	11/24/2020 18:00	37	38	29	52	54	48	0.8	30.6	1499	8.5	315	1582	8.8	313	1065	7.2	312	1290	8.3	318	1208	8.0	317	
11/24/2020 18:00	11/24/2020 19:00	39	36	25	47	47	41	0.2	28.1	195	4.9	334	313	5.7	330	138	4.2	335	226	5.5	341	159	4.6	331	
11/24/2020 19:00	11/24/2020 20:00	34	30	23	44	46	38	0.4	26.6	74	4.5	237	72	4.3	348	-17	2.7	80	-10	3.0	237	-9	2.6	178	
11/24/2020 20:00	11/24/2020 21:00	28	28	23	43	45	38	0.5	24.5	132	4.7	336	147	4.7	330	-10	2.5	232	29	4.3	340	10	3.4	335	
11/24/2020 21:00	11/24/2020 22:00	29	27	22	43	44	37	0.3	22.7	51	3.8	320	84	4.0	337	-13	3.1	339	3	4.1	332	3	3.3	324	
11/24/2020 22:00	11/24/2020 23:00	39	27	21	49	48	38	0.4	22.3	96	4.0	292	112	4.0	288	15	3.8	289	52	3.9	287	83	3.7	295	
11/24/2020 23:00	11/25/2020 0:00	24	25	19	38	40	33	0.4	22.1	-11	2.4	89	-9	2.1	73	-14	3.1	97	-8	2.8	71	-10	2.9	82	
11/25/2020 0:00	11/25/2020 1:00	25	23	19	38	39	34	0.1	21.5	76	4.6	80	76	4.8	77	74	4.4	81	119	4.8	83	73	4.7	84	
11/25/2020 1:00	11/25/2020 2:00	23	24	19	39	42	35	0.3	21.5	151	4.6	85	145	4.8	81	83	4.6	93	216	5.2	93	182	5.1	95	
11/25/2020 2:00	11/25/2020 3:00	22	24	20	40	42	37	0.4	22.3	489	6.1	114	502	6.3	108	276	5.6	101	537	6.1	105	456	5.9	110	
11/25/2020 3:00	11/25/2020 4:00	24	25	22	43	45	40	0.7	23	475	6.1	115	458	6.1	111	231	5.5	102	470	5.9	107	479	5.8	112	
11/25/2020 4:00	11/25/2020 5:00	25	26	23	44	45	42	0.5	23.2	509	6.0	119	663	6.8	113	354	5.7	112	768	6.5	111	695	6.3	116	
11/25/2020 5:00	11/25/2020 6:00	36	33	24	48	49	43	0.4	23.5	295	5.1	109	333	5.4	104	145	5.0	99	377	5.4	108	435	5.7	114	
11/25/2020 6:00	11/25/2020 7:00	36	37	27	49	51	45	0.3	24.1	576	5.8	108	711	6.6	110	236	5.4	99	664	6.2	108	719	6.6	114	
11/25/2020 7:00	11/25/2020 8:00	34	36	29	50	52	46	0.3	24.2	792	6.7	122	887	7.1	119	236	5.1	101	670	6.1	111	671	6.3	116	
11/25/2020 8:00	11/25/2020 9:00	33	35	29	49	52	47	0.3	24.9	1064	7.3	130	1204	7.8	127	298	5.2	112	858	6.8	123	774	6.8	131	
11/25/2020 9:00	11/25/2020 10:00	36	36	31	51	53	48	0.3	26	1261	7.8	147	1400	8.3	142	314	5.2	123	880	6.3	131	730	6.0	138	
11/25/2020 10:00	11/25/2020 11:00	41	38	31	53	53	48	0.2	27.7	1795	8.7	156	1933	9.0	152	461	5.0	143	868	6.4	146	1187	7.0	154	
11/25/2020 11:00	11/25/2020 12:00	37	38	31	52	56	47	0.1	29.7	2443	9.8	150	2615	10.4	148	793	6.0	136	1375	7.2	137	1138	6.9	146	
11/25/2020 12:00	11/25/2020 13:00	37	39	30	51	52	46	0.2	31.3	969	6.8	157	1073	7.3	155	191	3.9	129	302	4.4	139	227	4.2	142	
11/25/2020 13:00	11/25/2020 14:00	37	36	28	50	50	45	0.3	33.1	306	5.0	161	410	5.9	165	48	4.0	183	174	4.0	182	132	3.7	162	
11/25/2020 14:00	11/25/2020 15:00	36	36	28	50	49	45	0.3	33.2	250	5.7	176	502	6.1	174	35	3.6	188	249	4.5	182	183	4.0	168	
11/25/2020 15:00	11/25/2020 16:00	35	37	28	50	51	45	0.2	33	143	5.0	194	307	6.0	194	37	3.5	207	289	4.7	196	187	4.2	194	
11/25/2020 16:00	11/25/2020 17:00	34	37	29	48	50	46	0.4	31.9	653	6.0	200	1743	8.4	194	304	4.8	206	842	6.0	198	611	5.4	202	
11/25/2020 17:00	11/25/2020 18:00	37	37	28	53	52	46	0.2	31.4	435	5.3	210	1766	8.4	198	534	5.7	216	1160	6.8	206	777	6.0	206	
11/25/2020 18:00	11/25/2020 19:00	36	38	28	52	52	47	0.4	31.1	420	5.1	215	1532	8.0	200	787	6.4	220	1385	7.3	215	674	5.6	217	
11/25/2020 19:00	11/25/2020 20:00	34	32	26	48	49	44	0.5	30.9	243	4.3	213	602	5.8	198	172	4.3	221	774	6.2	220	185	4.4	226	
11/25/2020 20:00	11/25/2020 21:00	30	31	27	48	50	45	0.1	31	568	5.6	209	990	6.9	200	516	5.9	220	1135	7.0	218	538	5.5	221	
11/25/2020 21:00	11/25/2020 22:00	33	35	28	48	50	45	0.1	0.01	31.4	476	5.4	214	1164	7.3	203	631	6.3	225	1937	8.7	219	1021	6.6	222
11/25/2020 22:00	11/25/2020 23:00	37	34	29	52	54	47	0.5	0.01	32.9	721	6.1	217	1114	7.1	208	975	7.1	232	2227	9.3	224	1486	7.5	227
11/25/2020 23:00	11/26/2020 0:00	38	39	31	52	54	48	0.0	0.01	32.9	1585	7.8	221	1976	8.7	211	1111	7.3	231	2438	9.6	225	2038	8.3	226
11/26/2020 0:00	11/26/2020 1:00	31	33	28	48	50	45	0.1	Trace	33	985	6.6	222	2022	9.4	206	810	6.4	224	1991	8.7	218	1663	7.7	219
11/26/2020 1:00	11/26/2020 2:00	33	34	28	46	48	44	0.0	Trace	33.1	151	4.1	217	1360	8.1	200	964	6.9	212	2054	8.2	203	1346	7.1	206
11/26/2020 2:00	11/26/2020 3:00	39	41	34	45	46	43	0.1	0.08	33.2	512	5.6	191	998	7.0	185	206	4.2	210	825	6.0	188	548	5.2	188
11/26/2020 3:00	11/26/2020 4:00	38	40	36	43	44	41	0.3	0.09	33	829	6.5	162	901	7.1	162	187	4.0	150	416	4.8	153	333	4.6	150
11/26/2020 4:00	11/26/2020 5:00	41	44	36	44	46	41	0.4	0.08	32.9	1102	7.4	151	1122	7.7	147	223	4.0	124	657	5.9	136	662	6.0	142
11/26/2020 5:00	11/26/2020 6:00	44	46	39	47	48	43	0.6	0.07	32.7	585	5.9	144	608	6.1	140	103	3.6	111	390	5.1	134	377	5.0	141
11/26/2020 6:00	11/26/2020 7:00	42	45	30	46	49	41	0.8	0.23	32.9	527	5.6	144	607	5.8	141	117	3.9	106	331	5.0	134	392	5.0	139
11/26/2020 7:00	11/26/2020 8:00	36	39	32	45	48	41	0.9	0.18	32.9	462	5.4	143	503	5.7	142	70	3.5	113	233	4.9	139	283	4.5	143
11/26/2020 8:00	11/26/2020 9:00	39	41	33	47	46	42	0.8	0.06	33.3	74	3.9	140	93	3.6	127	-13	3.0	81	41	3.6	111	48	3.5	130
11/26/2020 9:00	11/26/2020 10:00	35	37	30	43	45	41	0.7	0.11	33.9	10	3.5	118	7	3.4	114	-13	3.1	58	8	3.6	78	6	3.8	76
11/26/2020 10:00	11/26/2020 11:00	42	45	30	52	51	42	0.7	0.04	35.3	0	2.7	118	6	2.7	114	-11	3.1	52	17	3.7	72	14	3.7	67
11/26/2020 11:00	11/26/2020 12:00	39	42	30	47	49	42	0.7	0.11	36.6	73	3.3	134	95	3.										



APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/27/2020 7:00	11/27/2020 8:00	38	40	30	49	51	44	0.2	35.5	1399	8.3	280	1424	8.3	276	571	5.8	272	812	8.2	278	1271	8.0	281	
11/27/2020 8:00	11/27/2020 9:00	39	42	30	52	54	45	0.2	37	845	8.7	278	726	8.9	274	901	6.9	271	822	8.5	277	1462	8.3	281	
11/27/2020 9:00	11/27/2020 10:00	38	40	31	52	53	47	1.2	45.1	1399	8.2	273	1432	7.7	265	756	6.6	275	1005	7.3	275	1032	7.2	280	
11/27/2020 10:00	11/27/2020 11:00	39	41	30	52	55	46	1.9	49.6	1110	7.7	269	1014	7.4	263	784	6.7	275	812	6.9	275	778	6.8	280	
11/27/2020 11:00	11/27/2020 12:00	36	37	27	49	51	44	1.3	27	583	6.2	280	473	5.7	276	270	5.0	281	308	5.4	280	265	5.0	284	
11/27/2020 12:00	11/27/2020 13:00	45	45	29	59	58	45	1.8	49.6	1199	7.7	285	895	6.9	283	589	6.0	289	726	6.6	288	712	6.3	293	
11/27/2020 13:00	11/27/2020 14:00	45	49	34	57	60	51	3.2	49.7	1237	7.7	285	1346	8.1	280	1141	7.4	286	1491	8.3	286	1332	7.9	290	
11/27/2020 14:00	11/27/2020 15:00	38	41	31	53	55	48	2.3	48.9	1277	7.8	297	1245	7.9	295	1136	7.4	295	981	7.3	298	926	7.1	301	
11/27/2020 15:00	11/27/2020 16:00	43	45	28	59	61	45	1.3	47.6	677	6.7	304	621	6.6	302	369	5.3	302	513	6.0	303	430	5.7	304	
11/27/2020 16:00	11/27/2020 17:00	42	42	27	51	53	44	1.0	45.9	639	6.5	302	552	6.3	300	118	4.1	299	245	5.0	300	252	4.9	301	
11/27/2020 17:00	11/27/2020 18:00	37	35	27	50	50	44	0.2	42.9	524	6.0	288	555	6.0	284	209	4.7	285	439	5.8	288	392	5.5	291	
11/27/2020 18:00	11/27/2020 19:00	36	34	26	49	49	42	0.2	42	557	6.3	274	618	6.2	266	264	5.1	277	519	6.3	275	429	5.8	281	
11/27/2020 19:00	11/27/2020 20:00	28	28	24	44	46	40	0.1	41	252	5.2	303	280	5.1	300	116	4.2	305	216	5.1	306	222	4.8	303	
11/27/2020 20:00	11/27/2020 21:00	27	27	24	43	45	39	0.3	39.7	219	4.9	303	210	4.8	298	41	3.6	300	84	4.3	303	74	4.0	303	
11/27/2020 21:00	11/27/2020 22:00	41	33	25	52	48	41	0.4	39.4	490	6.0	292	485	5.8	288	124	4.2	291	325	5.4	297	295	5.1	299	
11/27/2020 22:00	11/27/2020 23:00	29	30	27	47	49	44	0.3	39.4	925	7.3	299	877	7.2	294	419	5.2	293	766	6.9	298	642	6.6	301	
11/27/2020 23:00	11/28/2020 0:00	33	31	25	47	49	43	0.5	39.3	619	6.4	294	609	6.4	290	295	5.2	294	543	6.3	300	516	6.1	301	
11/28/2020 0:00	11/28/2020 1:00	29	30	27	46	48	44	0.9	39.8	885	7.2	286	936	7.4	281	399	5.8	284	700	6.8	288	629	6.5	292	
11/28/2020 1:00	11/28/2020 2:00	26	28	25	45	47	41	0.4	39.5	600	6.3	285	681	6.6	281	155	4.6	274	392	5.8	281	407	5.8	286	
11/28/2020 2:00	11/28/2020 3:00	24	25	23	42	45	38	0.0	38.9	294	5.3	295	293	5.3	292	37	3.4	283	173	4.8	293	169	4.6	294	
11/28/2020 3:00	11/28/2020 4:00	24	25	23	40	43	37	0.2	38.4	84	4.1	280	77	3.9	276	77	3.9	267	119	4.3	282	112	4.1	287	
11/28/2020 4:00	11/28/2020 5:00	27	24	23	41	44	37	0.0	38.2	279	5.3	251	234	4.8	239	153	4.7	251	262	5.3	253	274	5.4	261	
11/28/2020 5:00	11/28/2020 6:00	26	28	24	43	46	40	0.2	38.1	730	6.2	233	332	4.8	221	201	4.5	234	540	6.2	237	668	6.5	246	
11/28/2020 6:00	11/28/2020 7:00	35	36	27	49	50	43	0.5	38.2	1191	7.5	248	882	6.5	235	275	5.0	244	669	6.6	247	724	6.5	252	
11/28/2020 7:00	11/28/2020 8:00	34	35	28	49	50	45	0.3	38.9	1140	7.5	252	889	6.5	241	301	5.1	249	602	6.2	247	637	5.9	252	
11/28/2020 8:00	11/28/2020 9:00	33	36	27	48	50	44	0.2	39.3	1149	7.4	247	880	6.4	235	210	4.7	240	596	6.2	243	701	6.4	249	
11/28/2020 9:00	11/28/2020 10:00	34	37	27	48	50	44	0.9	41.5	693	6.1	237	502	5.7	235	507	5.8	251	640	6.3	251	487	5.8	258	
11/28/2020 10:00	11/28/2020 11:00	42	46	31	56	59	47	3.1	44.7	1199	7.4	251	915	6.8	245	902	6.9	258	1213	7.7	255	1161	7.4	262	
11/28/2020 11:00	11/28/2020 12:00	46	49	34	57	61	49	3.4	45.4	1523	8.3	254	1302	7.9	248	1271	7.9	259	1843	8.9	254	1701	8.5	260	
11/28/2020 12:00	11/28/2020 13:00	43	46	34	56	59	49	3.4	45.2	1640	8.4	249	1444	8.0	245	1106	7.5	260	1471	8.3	257	1271	7.6	264	
11/28/2020 13:00	11/28/2020 14:00	42	45	32	54	57	49	2.5	44.9	1536	8.4	262	1442	8.2	257	1297	7.8	273	1387	8.2	273	1494	8.3	278	
11/28/2020 14:00	11/28/2020 15:00	47	51	37	60	62	53	3.7	42.9	2794	11.1	278	2414	10.2	275	429	9.6	280	2323	10.2	281	2342	10.3	286	
11/28/2020 15:00	11/28/2020 16:00	44	48	34	57	60	51	2.8	42.2	2056	10.8	279	1381	10.1	276	1904	9.2	281	2282	10.0	281	2189	9.7	287	
11/28/2020 16:00	11/28/2020 17:00	48	51	38	60	62	54	3.6	41.1	2642	11.1	284	2684	11.1	282	2212	9.7	287	2400	10.4	287	2389	10.2	293	
11/28/2020 17:00	11/28/2020 18:00	40	42	33	54	56	50	1.8	39.3	2806	10.9	281	2484	10.1	276	1373	8.1	281	1791	9.0	282	1740	8.8	287	
11/28/2020 18:00	11/28/2020 19:00	38	40	33	53	55	50	2.2	38	3048	11.7	284	3121	11.7	279	1516	8.4	282	2493	10.3	282	2415	10.0	290	
11/28/2020 19:00	11/28/2020 20:00	38	39	33	53	55	49	2.3	36.3	3018	11.5	281	2972	11.1	277	1090	7.5	279	1939	9.4	284	1990	9.3	288	
11/28/2020 20:00	11/28/2020 21:00	39	41	32	54	56	50	2.2	36.7	3107	11.7	283	3098	11.4	278	1669	8.8	280	2615	10.6	284	2384	10.0	288	
11/28/2020 21:00	11/28/2020 22:00	37	37	32	52	54	48	1.8	35.7	2600	10.7	281	2555	10.7	275	1774	9.2	278	2407	10.2	281	2462	10.1	285	
11/28/2020 22:00	11/28/2020 23:00	32	33	30	49	52	47	0.7	31.3	1680	8.7	268	1524	8.0	260	1033	7.7	268	1542	8.7	271	1724	8.9	278	
11/28/2020 23:00	11/29/2020 0:00	34	35	32	51	53	49	0.6	30.8	2740	10.6	263	2619	10.1	264	1739	9.1	264	2485	10.3	267	2724	10.7	273	
11/29/2020 0:00	11/29/2020 1:00	37	38	33	54	56	51	1.5	31	3178	12.0	261	3093	11.2	254	2240	9.7	261	3052	11.3	263	3167	11.9	269	
11/29/2020 1:00	11/29/2020 2:00	36	38	33	53	55	50	2.0	34.9	3199	13.2	258	3199	12.5	251	2346	9.7	258	3197	12.3	259	3195	12.3	265	
11/29/2020 2:00	11/29/2020 3:00	34	34	31	50	52	48	1.1	31.9	2834	10.7	259	2655	9.8	252	1583	8.4	257	2190	9.5	259	2111	9.0	263	
11/29/2020 3:00	11/29/2020 4:00	33	34	31	52	54	50	0.4	29.3	2371	9.8	267	2244	9.3	261	1013	7.4	267	1664	8.6	267	1610	8.3	271	
11/29/2020 4:00	11/29/2020 5:00	33	34	32	51	53	49	0.5	29.2	3111	11.5	279	3128	11.5	274	1519	8.4	279	1949	9.2	282	1945	9.2	287	
11/29/2020 5:00	11/29/2020 6:00	34	35	33	52	54	50	0.3	30.3	3128	11.6	288	3184	12.1	285	1530	8.4	283	2241	9.6	288	2189	9.6	293	
11/29/2020 6:00	11/29/2020 7:00	37	36	32	51	54	48	0.1	29.5	2466	10.1	276	2330	9.6	267	1103	7.9	269	1741	8.8	276	1872	9.1	283	
11/29/2020 7:00	11/29/2020 8:00	37	38	30	52	53	47	0.2	29.4	1216	7.6	255	1053	7.0	246	784	7.1	260	946	8.0	265	1436	8.3	272	
11/29/2020 8:00	11/29/2020 9:00	39	37	28	49	50	45	1.0	33.3	501	7.5	250	330	6.8	242	332	5.5	249	356	6.5	251	770	6.9	256	
11/29/2020 9:00	11/29/2020 10:00	38	42	29	52	56	46	1.9	38	952	7.2	256	736	6.3	247	838	7.0	254	1028	7.4	255	1071	7.3	261	
11/29/2020 10:00	11/29/2020 11:00	42	43	31	54	57	46	2.1	39.8	574	5.9	255													

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
11/30/2020 6:00	11/30/2020 7:00	33	33	28	50	53	44	0.4		28.7	1207	7.4	152	1278	7.7	149	240	4.2	142	334	5.1	149	836	6.3	155
11/30/2020 7:00	11/30/2020 8:00	36	36	29	51	53	47	0.0		29.6	979	7.0	138	1015	7.3	134	168	3.9	128	473	6.5	137	726	6.3	138
11/30/2020 8:00	11/30/2020 9:00	34	36	31	50	52	48	0.6		31.1	916	7.5	135	898	7.8	130	159	4.1	107	391	6.8	131	794	6.3	130
12/4/2020 11:00	12/4/2020 12:00	44	47	35	58	61	51	2.4		47.1	1511	7.9	228	1450	8.0	220	2175	9.6	242	2080	9.3	242	1049	7.0	250
12/4/2020 12:00	12/4/2020 13:00	49	52	35	61	64	51	3.2		48.2	1346	7.7	237	1084	7.2	227	1934	9.1	246	2530	10.3	239	2046	9.0	248
12/4/2020 13:00	12/4/2020 14:00	45	50	32	58	62	49	2.1		48.2	957	6.7	230	493	5.6	222	1145	7.5	244	1811	8.7	238	1156	7.0	244
12/4/2020 14:00	12/4/2020 15:00	49	48	30	58	60	47	1.5		48.7	342	5.0	225	551	5.8	212	667	6.2	235	945	6.6	230	466	5.2	237
12/4/2020 15:00	12/4/2020 16:00	45	39	25	56	54	44	0.7		47.9	157	4.2	204	459	5.6	198	237	4.6	222	201	4.3	215	79	3.7	213
12/4/2020 16:00	12/4/2020 17:00	38	41	26	50	52	44	0.1		41.5	7	3.0	210	130	4.1	195	41	2.8	219	26	3.1	206	20	3.1	205
12/4/2020 17:00	12/4/2020 18:00	33	33	24	48	49	43	0.3		37.6	-8	2.7	233	13	3.0	212	-20	2.1	284	-2	2.9	253	9	3.0	247
12/4/2020 18:00	12/4/2020 19:00	37	35	25	49	50	42	0.3		34.1	62	3.8	189	220	4.7	192	61	3.3	217	174	4.1	204	137	3.9	207
12/4/2020 19:00	12/4/2020 20:00	33	35	27	46	48	42	0.4		31.6	429	5.3	201	846	6.8	195	593	5.6	212	1039	6.5	204	657	5.5	205
12/4/2020 20:00	12/4/2020 21:00	34	31	26	48	47	43	0.4		30.8	490	5.4	222	841	6.6	208	337	4.8	230	488	5.4	219	393	5.0	221
12/4/2020 21:00	12/4/2020 22:00	28	29	25	45	46	42	0.3		28	629	5.6	219	809	6.5	206	154	4.1	227	604	5.7	218	484	5.3	223
12/4/2020 22:00	12/4/2020 23:00	31	31	28	46	48	43	0.5		33.7	711	5.8	216	1172	7.4	204	490	5.4	222	1039	6.7	216	620	5.7	220
12/4/2020 23:00	12/5/2020 0:00	32	28	25	49	48	41	1.0		36.7	815	6.2	225	597	5.8	218	109	3.7	240	302	4.8	231	244	4.4	236
12/5/2020 0:00	12/5/2020 1:00	28	29	26	45	47	43	0.3		35.2	1477	7.6	230	882	6.3	221	313	5.1	239	727	6.4	233	738	6.0	236
12/5/2020 1:00	12/5/2020 2:00	26	27	25	45	47	42	0.1		34.5	222	6.1	260	438	5.4	243	222	5.9	242	489	6.2	248	510	6.2	260
12/5/2020 2:00	12/5/2020 3:00	26	27	25	44	46	41	0.3		34.3	402	5.6	303	420	5.5	301	94	3.6	278	243	5.1	291	270	4.9	295
12/5/2020 3:00	12/5/2020 4:00	26	27	24	43	46	40	0.0		34.4	309	4.9	273	345	5.0	328	47	2.9	275	189	4.4	276	168	4.0	219
12/5/2020 4:00	12/5/2020 5:00	25	26	24	41	42	38	0.3		34.9	315	5.3	31	211	4.9	84	80	3.6	48	175	4.5	39	117	4.0	40
12/5/2020 5:00	12/5/2020 6:00	28	28	24	43	45	39	0.0	Trace	35	428	6.0	59	412	6.3	57	180	4.5	61	349	5.7	65	299	5.5	68
12/5/2020 6:00	12/5/2020 7:00	31	33	24	46	48	41	0.1	0.07	35.2	485	6.2	78	477	6.3	74	117	4.3	80	304	5.4	81	281	5.4	85
12/5/2020 7:00	12/5/2020 8:00	36	39	32	45	48	42	0.2	0.06	35.2	162	4.8	64	169	5.1	60	114	4.5	71	152	4.9	74	120	4.7	72
12/5/2020 8:00	12/5/2020 9:00	40	42	33	52	51	43	0.4	0.11	34.7	152	5.0	36	74	4.3	30	73	4.1	49	167	5.3	52	166	5.2	51
12/5/2020 9:00	12/5/2020 10:00	40	42	30	50	53	45	0.3	0.09	33.2	972	8.0	33	78	4.2	29	138	5.5	43	315	7.8	43	889	7.8	43
12/5/2020 10:00	12/5/2020 11:00	38	40	29	50	52	45	0.9	0.14	32.8	1934	9.6	22	739	7.0	17	127	6.8	31	1311	8.4	34	1576	8.8	33
12/5/2020 11:00	12/5/2020 12:00	37	38	30	51	53	48	0.9	0.12	32.9	2785	11.3	10	2498	10.8	63	198	5.8	21	2187	9.5	22	2630	10.6	23
12/5/2020 12:00	12/5/2020 13:00	34	37	30	52	54	49	0.6	0.19	32.8	3104	12.5	181	2859	11.5	294	146	5.2	71	1592	8.4	72	2297	9.8	72
12/5/2020 13:00	12/5/2020 14:00	36	39	32	54	55	50	0.0	0.13	32.9	3196	14.5	348	3188	13.9	340	249	6.2	349	2304	8.8	351	1386	7.5	355
12/5/2020 14:00	12/5/2020 15:00	38	39	34	56	57	51	1.0	0.11	33	3194	15.4	345	3196	15.1	339	459	7.7	346	2912	11.5	347	2312	9.4	348
12/5/2020 15:00	12/5/2020 16:00	41	43	35	58	60	53	1.6	0.09	33.2	2943	13.6	331	3195	14.6	326	332	9.2	327	2982	11.5	331	2980	11.7	333
12/5/2020 16:00	12/5/2020 17:00	49	52	41	66	69	56	3.1	0.11	33.5	2920	16.3	326	3198	17.2	323	2663	10.9	322	3158	13.7	326	3180	14.0	329
12/5/2020 17:00	12/5/2020 18:00	51	54	44	68	71	57	3.8	0.04	33.4	2941	18.5	322	3199	17.9	319	3078	13.4	317	3188	15.3	319	3182	15.6	323
12/5/2020 18:00	12/5/2020 19:00	52	56	43	70	73	57	4.2	0.03	33.1	2952	18.5	317	3194	16.9	315	3104	13.2	311	3179	15.7	313	3193	15.5	317
12/5/2020 19:00	12/5/2020 20:00	50	53	43	67	70	57	2.2	0.02	32.8	2943	18.3	313	3191	18.9	311	3179	15.7	308	3199	17.0	310	3200	17.4	315
12/5/2020 20:00	12/5/2020 21:00	56	60	46	73	76	59	3.1	0.02	32.6	2945	20.2	310	3196	21.1	309	3173	17.9	307	3201	19.3	308	3191	19.5	313
12/5/2020 21:00	12/5/2020 22:00	60	64	51	77	81	62	N/A	Trace	31.4	2954	21.6	309	3172	22.3	310	3158	18.4	307	3197	19.7	308	3200	19.3	312
12/5/2020 22:00	12/5/2020 23:00	61	64	53	77	81	63	N/A	Trace	30.5	2958	21.2	310	3069	22.5	310	3124	17.7	308	3155	18.6	307	3186	19.0	312
12/5/2020 23:00	12/6/2020 0:00	57	60	51	72	76	62	N/A	Trace	29.7	2972	20.7	307	3192	18.3	305	3186	14.9	300	3187	16.8	300	3189	17.0	306
12/6/2020 0:00	12/6/2020 1:00	57	60	50	72	76	61	N/A	Trace	29	2969	19.5	306	3189	18.2	303	3156	14.2	299	3194	15.9	299	3197	16.0	304
12/6/2020 1:00	12/6/2020 2:00	56	59	48	71	74	60	N/A	Trace	28.4	2974	19.0	304	3200	17.5	302	3178	14.1	299	3172	15.0	298	3190	15.2	303
12/6/2020 2:00	12/6/2020 3:00	58	61	50	73	77	61	N/A		27.4	2968	18.3	298	3200	18.1	296	3187	15.1	294	3200	15.7	292	3198	15.8	298
12/6/2020 3:00	12/6/2020 4:00	56	59	48	71	74	59	N/A		26.7	2960	17.9	299	3200	18.2	297	3198	15.5	294	3200	15.9	295	3200	16.3	301
12/6/2020 4:00	12/6/2020 5:00	53	57	45	68	71	58	N/A		26.5	2975	15.6	297	3195	16.2	295	3147	14.0	294	3175	14.5	294	3178	14.9	300
12/6/2020 5:00	12/6/2020 6:00	52	55	45	67	70	58	N/A		25.9	2958	13.7	294	3163	13.4	291	3008	11.8	291	3067	12.5	291	3115	12.7	297
12/6/2020 6:00	12/6/2020 7:00	54	58	47	69	72	58	N/A		25.4	2952	14.3	294	3181	14.9	292	3075	12.6	294	3132	13.2	294	3179	14.2	300
12/6/2020 7:00	12/6/2020 8:00	55	58	47	69	72	59	N/A		25.1	2959	16.3	290	3185	16.6	289	3183	14.4	291	2731	15.1	291	3184	15.8	297
12/6/2020 8:00	12/6/2020 9:00	51	54	43	65	69	56	N/A		25.2	1535	15.7	292	1463	16.8	288	3181	14.7	286	1215	16.5	289	3184	16.6	293
12/6/2020 9:00	12/6/2020 10:00	51	55	42	66	69	56	N/A		25.9	2330	13.5	292	2819	13.8	289	3146	13.5	289	3159	14.4	287	3163	14.9	294
12/6/2020 10:00	12/6/2020 11:00	51	55	42	66	69	56	N/A		26.2	3124	13.8	289	3171	13.9	286	3121	12.9	290	3168	14.3	288	3		

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/7/2020 7:00	12/7/2020 8:00	41	45	33	56	58	52	2.5	22.1	2317	10.0	301	2446	10.2	299	1747	8.9	295	2282	9.9	300	2468	10.1	302	
12/7/2020 8:00	12/7/2020 9:00	44	48	35	57	60	52	2.7	22.9	2782	11.0	307	2830	11.0	305	1879	8.9	303	2023	9.5	305	2226	9.5	307	
12/7/2020 9:00	12/7/2020 10:00	41	44	32	54	57	51	2.4	24.2	2042	9.6	308	2022	9.6	304	1558	8.3	302	1857	9.4	306	2062	9.4	308	
12/7/2020 10:00	12/7/2020 11:00	42	47	32	55	58	50	2.8	24.7	1512	8.8	296	1661	8.9	290	1567	8.6	290	1685	9.1	293	1527	8.5	296	
12/7/2020 11:00	12/7/2020 12:00	42	46	31	55	57	49	2.7	25.2	1725	9.1	299	1668	9.0	295	1356	8.3	296	1732	9.2	296	1675	8.9	301	
12/7/2020 12:00	12/7/2020 13:00	45	49	31	57	60	49	3.1	25.4	1722	9.0	304	2011	9.6	299	1535	8.4	299	1547	8.8	302	1677	8.8	301	
12/7/2020 13:00	12/7/2020 14:00	37	39	28	51	54	47	2.0	25.2	879	7.6	300	799	7.6	295	766	7.0	293	841	7.6	295	961	7.5	298	
12/7/2020 14:00	12/7/2020 15:00	39	43	29	54	57	48	2.2	25	869	7.5	294	951	7.7	290	804	7.2	292	835	7.5	296	937	7.5	298	
12/7/2020 15:00	12/7/2020 16:00	38	41	28	53	56	48	2.0	24.8	1457	8.6	308	1756	9.1	305	1184	7.7	304	1551	8.8	309	1601	8.6	313	
12/7/2020 16:00	12/7/2020 17:00	39	38	27	51	53	46	1.6	24.1	958	7.6	316	1178	8.1	312	716	6.7	312	1043	7.9	316	1166	7.8	317	
12/7/2020 17:00	12/7/2020 18:00	35	37	29	52	54	47	1.6	23.5	1692	9.0	319	1629	9.0	318	721	6.7	313	1053	7.9	317	1251	8.0	316	
12/7/2020 18:00	12/7/2020 19:00	39	38	28	53	54	47	1.5	22.9	1237	8.3	320	1073	8.0	320	901	7.0	316	976	7.8	322	1156	7.8	321	
12/7/2020 19:00	12/7/2020 20:00	29	30	25	48	50	44	1.2	22.3	772	7.2	321	930	7.7	320	484	6.2	316	636	7.0	323	755	7.0	323	
12/7/2020 20:00	12/7/2020 21:00	30	32	27	49	51	46	0.9	22.4	1138	7.8	322	1363	8.6	322	436	5.7	318	714	7.0	327	824	6.9	324	
12/7/2020 21:00	12/7/2020 22:00	33	35	26	48	51	44	1.8	22.4	328	5.8	330	624	7.0	326	264	5.1	324	480	6.4	330	604	6.5	328	
12/7/2020 22:00	12/7/2020 23:00	30	31	26	49	51	45	1.6	22.3	244	6.5	317	250	6.4	313	201	5.4	313	310	6.9	322	389	7.2	324	
12/7/2020 23:00	12/8/2020 0:00	37	37	25	49	52	40	1.9	21.9	31	7.0	320	71	7.0	315	186	5.9	317	-5	7.3	331	-6	7.7	333	
12/8/2020 0:00	12/8/2020 1:00	29	32	23	45	48	38	1.3	21.8	-8	7.1	319	-5	7.4	317	161	5.8	316	21	7.0	326	27	7.4	327	
12/8/2020 1:00	12/8/2020 2:00	27	30	22	44	46	38	1.2	21.8	43	6.7	324	31	6.6	320	-12	5.8	327	60	6.7	330	56	7.4	333	
12/8/2020 2:00	12/8/2020 3:00	28	28	22	42	44	37	1.3	22	-9	6.8	323	-5	7.0	321	-12	5.9	325	-6	6.4	328	-9	6.9	330	
12/8/2020 3:00	12/8/2020 4:00	34	36	26	48	52	41	2.0	21.6	27	8.3	324	12	8.5	321	100	7.2	321	98	7.7	325	60	8.2	327	
12/8/2020 4:00	12/8/2020 5:00	33	35	25	47	50	40	1.6	21	-11	9.0	325	0	9.1	323	-11	7.5	325	-6	8.3	326	-11	8.2	328	
12/8/2020 5:00	12/8/2020 6:00	37	37	26	51	54	42	1.4	20.9	38	8.4	324	17	8.4	320	79	7.1	321	76	8.0	324	65	8.4	326	
12/8/2020 6:00	12/8/2020 7:00	33	34	26	49	52	45	1.7	21.1	57	8.3	326	56	8.5	322	159	6.2	318	148	7.4	323	106	7.9	326	
12/8/2020 7:00	12/8/2020 8:00	37	40	29	52	55	46	1.7	21.4	-10	8.1	327	-6	8.1	323	-12	6.2	322	-6	7.1	324	-10	7.2	328	
12/8/2020 8:00	12/8/2020 9:00	39	41	29	54	57	45	1.6	21.8	10	8.0	329	9	8.4	324	7	6.9	325	57	7.7	326	39	8.2	331	
12/8/2020 9:00	12/8/2020 10:00	37	37	26	49	52	44	1.5	22.4	35	7.0	326	28	7.2	322	177	6.7	320	188	7.9	326	152	8.3	329	
12/8/2020 10:00	12/8/2020 11:00	40	43	28	54	57	44	2.5	23.3	97	8.6	320	111	8.8	318	190	8.2	319	90	8.0	321	126	8.5	324	
12/8/2020 11:00	12/8/2020 12:00	41	45	30	55	59	45	2.5	24.2	399	8.8	320	393	9.3	317	233	8.8	320	269	8.3	322	239	8.8	324	
12/8/2020 12:00	12/8/2020 13:00	44	48	34	58	60	50	2.9	24.6	2052	10.5	315	521	9.8	314	443	8.8	314	396	9.7	317	290	9.6	322	
12/8/2020 13:00	12/8/2020 14:00	42	46	34	56	59	51	2.4	24.7	1866	9.6	315	1390	10.2	311	863	8.9	308	1446	10.0	314	1397	10.2	318	
12/8/2020 14:00	12/8/2020 15:00	40	43	33	57	58	51	2.1	24.3	2020	10.2	317	2501	10.6	313	1020	7.9	312	2078	9.8	317	2241	10.0	319	
12/8/2020 15:00	12/8/2020 16:00	42	46	34	57	59	51	2.6	24.1	1819	9.3	320	1933	9.6	317	725	7.1	315	1122	8.1	318	1588	8.7	318	
12/8/2020 16:00	12/8/2020 17:00	39	41	33	56	57	51	1.9	22.9	2403	10.4	317	2152	10.0	314	1152	7.9	310	1621	9.1	315	1951	9.3	316	
12/8/2020 17:00	12/8/2020 18:00	42	45	34	57	59	52	2.0	23	2904	12.0	312	2941	12.0	310	1598	8.6	311	2146	9.9	313	2396	10.1	316	
12/8/2020 18:00	12/8/2020 19:00	40	42	34	55	57	52	1.9	22.4	2919	11.7	310	2902	11.5	306	1816	8.9	305	2440	10.4	310	2585	10.5	313	
12/8/2020 19:00	12/8/2020 20:00	40	42	33	55	57	52	2.1	22.5	2278	10.1	303	2199	10.0	302	1813	9.0	300	2272	10.0	303	2255	9.9	305	
12/8/2020 20:00	12/8/2020 21:00	42	46	34	56	59	52	2.6	22.7	2150	9.9	305	1975	9.7	300	1794	9.0	297	2396	10.3	300	2535	10.4	303	
12/8/2020 21:00	12/8/2020 22:00	39	41	32	55	57	51	2.1	22.8	2151	9.8	305	2107	9.8	298	1590	8.6	296	2266	10.0	300	2413	10.2	303	
12/8/2020 22:00	12/8/2020 23:00	41	45	31	55	58	50	2.3	22.9	2515	10.5	304	2385	10.2	303	1314	8.1	301	1562	8.9	304	2117	9.6	305	
12/8/2020 23:00	12/9/2020 0:00	34	35	28	51	53	47	1.5	22.7	1285	8.2	308	1343	8.4	306	715	7.0	302	1089	8.0	306	1247	8.1	307	
12/9/2020 0:00	12/9/2020 1:00	33	33	28	50	52	47	1.6	22.9	938	7.6	302	846	7.4	298	992	7.5	295	1367	8.5	296	1523	8.6	299	
12/9/2020 1:00	12/9/2020 2:00	35	38	28	51	54	47	2.0	22.6	1209	8.1	292	1176	8.0	288	1001	7.7	288	1295	8.4	290	1421	8.6	294	
12/9/2020 2:00	12/9/2020 3:00	29	31	25	48	50	44	1.2	21.9	698	7.1	292	834	7.4	289	787	7.3	288	972	7.8	291	898	7.5	294	
12/9/2020 3:00	12/9/2020 4:00	30	32	24	48	50	44	0.9	21.2	1150	7.9	289	1299	8.1	286	705	6.9	281	982	7.5	285	1151	7.7	289	
12/9/2020 4:00	12/9/2020 5:00	38	41	31	52	55	48	2.3	21.7	1371	8.3	287	1518	8.6	282	941	7.7	282	1515	8.7	286	1560	8.8	290	
12/9/2020 5:00	12/9/2020 6:00	38	39	32	52	54	49	2.2	22	1011	7.6	285	1189	8.0	280	698	7.1	276	1169	8.0	279	1251	8.0	285	
12/9/2020 6:00	12/9/2020 7:00	38	36	31	52	54	48	0.8	22.3	1336	8.2	284	1723	8.9	281	946	7.6	272	1437	8.2	276	1563	8.2	283	
12/9/2020 7:00	12/9/2020 8:00	37	38	29	53	55	48	0.4	22.2	1225	7.7	282	1287	7.8	282	553	6.6	265	740	7.1	270	934	7.1	277	
12/9/2020 8:00	12/9/2020 9:00	35	38	28	51	54	46	0.6	23.3	737	7.5	278	676	7.7	273	522	6.4	254	222	7.6	267	889	7.2	270	
12/9/2020 9:00	12/9/2020 10:00	37	38	28	51	53	46	1.2	26.5	672	7.3	245	637	6.7	232	242	5.1	236	585	6.4	235	556	6.2	242	
12/9/2020 10:00	12/9/2020 11:00	35	37	27	50	54	45	1.4	27	274	5.3	228	465	6.1	215	16	3.5	231	56	3.8	222	30	3.7	225	
12/9/2020 11:00	12/9/2020 12:00</																								

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/10/2020 6:00	12/10/2020 7:00	35	36	33	52	54	50	1.6	33	2315	10.0	295	2411	10.2	292	1015	7.6	287	1519	8.7	293	1495	8.5	295	
12/10/2020 7:00	12/10/2020 8:00	40	40	34	56	58	52	1.6	33.1	2584	10.7	295	2739	11.0	291	1688	8.7	289	2366	10.1	292	2132	9.5	296	
12/10/2020 8:00	12/10/2020 9:00	42	42	33	54	58	52	2.2	33.8	2378	10.9	298	2384	11.2	295	2145	9.6	291	2614	11.1	294	2534	10.7	298	
12/10/2020 9:00	12/10/2020 10:00	38	40	34	54	56	51	2.3	0.02	35.6	1204	8.9	291	1715	9.5	288	1605	8.6	288	2146	9.7	290	2027	9.3	294
12/10/2020 10:00	12/10/2020 11:00	44	48	34	58	60	52	2.8	35.9	2396	10.5	287	2286	10.0	284	2250	9.8	287	2402	10.2	289	2459	10.2	292	
12/10/2020 11:00	12/10/2020 12:00	44	49	35	58	60	53	2.8	36.2	3095	12.4	294	3150	13.2	292	2966	11.5	293	3041	12.4	295	3115	12.6	299	
12/10/2020 12:00	12/10/2020 13:00	46	50	37	60	62	53	3.2	36.9	3014	13.2	296	3146	13.3	295	3025	12.1	294	3145	12.7	296	3131	13.2	301	
12/10/2020 13:00	12/10/2020 14:00	49	53	37	63	65	53	4.0	37.4	2921	12.6	299	3136	12.7	297	3136	13.1	295	3165	13.4	299	3105	13.2	304	
12/10/2020 14:00	12/10/2020 15:00	42	45	32	56	58	51	2.6	37.4	1557	10.2	297	1965	9.7	295	2146	9.5	288	2608	10.6	288	2563	10.4	292	
12/10/2020 15:00	12/10/2020 16:00	41	45	32	55	58	50	2.6	35.9	1434	8.6	288	1156	8.5	287	1330	7.9	288	1731	9.0	291	1617	8.7	294	
12/10/2020 16:00	12/10/2020 17:00	39	42	29	54	56	47	1.9	31.9	1425	8.3	290	1507	8.4	286	637	6.6	286	960	7.5	289	1027	7.6	293	
12/10/2020 17:00	12/10/2020 18:00	37	39	28	52	54	46	0.1	28.7	1298	8.1	280	1344	7.9	274	1057	7.7	279	1555	8.7	282	1550	8.6	288	
12/10/2020 18:00	12/10/2020 19:00	36	34	30	52	53	48	0.4	28.6	1769	9.0	290	2035	9.4	286	1349	8.4	287	2020	9.6	292	1863	9.2	296	
12/10/2020 19:00	12/10/2020 20:00	32	33	27	51	52	47	0.7	28.9	1453	8.3	289	1500	8.2	285	637	6.5	287	1051	7.5	291	1011	7.4	295	
12/10/2020 20:00	12/10/2020 21:00	34	34	28	52	53	47	0.2	27.4	1543	8.3	291	1516	8.1	286	360	5.3	285	733	6.5	286	832	6.7	290	
12/10/2020 21:00	12/10/2020 22:00	30	32	26	48	51	45	0.4	26.7	1168	7.9	293	1200	7.7	289	554	6.1	287	933	7.2	292	958	7.1	295	
12/10/2020 22:00	12/10/2020 23:00	31	30	27	51	52	46	0.3	25.5	915	7.4	293	997	7.6	289	518	6.1	290	765	6.9	293	820	6.8	297	
12/10/2020 23:00	12/11/2020 0:00	29	30	27	48	50	46	0.4	24.7	895	7.3	281	1098	7.8	275	587	6.4	280	972	7.5	283	1029	7.4	286	
12/11/2020 0:00	12/11/2020 1:00	28	29	26	47	49	44	0.5	24.4	856	7.2	271	961	7.3	264	336	5.5	272	672	6.6	273	721	6.7	279	
12/11/2020 1:00	12/11/2020 2:00	28	29	26	45	47	43	0.2	23.8	637	6.6	264	739	6.6	256	255	5.1	269	572	6.4	266	692	6.7	273	
12/11/2020 2:00	12/11/2020 3:00	25	26	23	43	46	39	0.4	22.6	456	6.1	254	384	5.5	242	83	4.1	251	255	5.1	256	250	4.9	260	
12/11/2020 3:00	12/11/2020 4:00	39	25	22	43	43	38	0.5	21.8	76	4.1	241	75	4.0	234	-9	3.0	259	54	3.6	246	43	3.4	251	
12/11/2020 4:00	12/11/2020 5:00	26	27	24	44	46	41	0.2	21.5	395	5.7	232	345	5.2	219	92	4.0	236	303	5.6	241	323	5.4	245	
12/11/2020 5:00	12/11/2020 6:00	33	32	25	49	49	42	0.3	20.9	289	4.8	224	258	4.7	211	118	4.0	240	441	5.8	226	498	5.6	230	
12/11/2020 6:00	12/11/2020 7:00	36	33	28	50	50	45	0.1	20.5	245	4.7	194	362	5.1	187	463	5.7	208	1805	8.3	204	1144	6.6	202	
12/11/2020 7:00	12/11/2020 8:00	34	37	28	49	51	46	0.1	20.3	394	5.4	218	956	6.8	205	553	5.9	218	1342	7.6	212	938	6.2	211	
12/11/2020 8:00	12/11/2020 9:00	32	34	28	49	51	45	0.3	22.3	70	6.6	216	166	7.3	203	576	5.6	212	850	8.0	213	1036	6.4	207	
12/11/2020 9:00	12/11/2020 10:00	35	37	30	51	53	48	0.9	29.8	213	5.9	216	567	6.7	203	1124	7.5	220	2529	9.4	211	1574	7.3	212	
12/11/2020 10:00	12/11/2020 11:00	38	36	30	53	54	48	0.6	32.6	289	5.0	221	1245	7.4	207	1649	8.5	229	2822	10.5	221	1826	7.9	221	
12/11/2020 11:00	12/11/2020 12:00	45	47	34	56	57	50	2.0	39.7	1457	7.5	218	2532	10.1	209	1878	8.8	227	2663	10.0	217	2033	8.3	217	
12/11/2020 12:00	12/11/2020 13:00	38	40	32	55	56	48	2.0	41.6	895	6.4	219	2129	9.1	206	1376	7.9	226	1698	8.0	215	1191	6.8	217	
12/11/2020 13:00	12/11/2020 14:00	36	37	29	51	52	45	1.3	43.2	449	5.4	220	422	7.4	205	652	5.9	223	782	6.2	212	559	5.4	214	
12/11/2020 14:00	12/11/2020 15:00	39	43	29	53	55	46	1.6	44.2	376	7.3	212	1580	9.4	202	663	6.0	217	982	6.4	208	607	5.7	209	
12/11/2020 15:00	12/11/2020 16:00	38	39	30	52	53	46	1.2	40.2	1613	9.4	212	1450	10.1	207	583	5.8	221	1325	7.1	211	773	5.9	214	
12/11/2020 16:00	12/11/2020 17:00	36	36	30	49	51	47	0.8	37.5	2517	8.9	211	2990	10.8	206	691	6.0	227	1677	7.8	218	1057	6.5	221	
12/11/2020 17:00	12/11/2020 18:00	35	37	31	51	53	48	1.4	37.3	3108	12.3	214	3167	12.8	210	1224	7.3	228	2588	9.6	220	1925	8.0	221	
12/11/2020 18:00	12/11/2020 19:00	37	39	34	53	55	50	2.2	42	3013	13.6	219	3153	12.8	212	1637	8.1	229	3046	11.1	221	2521	9.2	222	
12/11/2020 19:00	12/11/2020 20:00	37	39	34	53	55	50	2.0	43	2944	15.3	231	3156	12.2	219	2626	10.1	238	3181	12.6	231	3184	12.4	236	
12/11/2020 20:00	12/11/2020 21:00	40	36	31	55	54	49	1.0	38.9	2940	14.6	241	3198	13.6	230	3160	12.3	242	3200	14.0	240	3199	14.1	248	
12/11/2020 21:00	12/11/2020 22:00	33	35	32	51	52	49	0.2	35.4	2858	11.1	253	2860	10.9	240	2486	10.5	243	3060	12.5	246	3010	12.2	259	
12/11/2020 22:00	12/11/2020 23:00	35	35	32	51	52	49	0.2	33.2	2739	10.4	238	1555	7.5	223	1587	8.5	237	2731	10.6	238	2739	10.9	252	
12/11/2020 23:00	12/12/2020 0:00	34	33	31	51	52	47	0.4	31.7	2574	10.3	240	1993	8.9	231	1583	8.5	243	2678	10.7	243	2652	10.9	256	
12/12/2020 0:00	12/12/2020 1:00	31	33	30	48	50	46	0.3	31.4	1950	8.8	256	1928	8.3	247	1314	8.2	248	1934	9.3	259	1726	8.7	271	
12/12/2020 1:00	12/12/2020 2:00	29	30	27	46	48	42	0.1	29.8	1005	7.3	271	1038	7.1	263	543	5.8	250	909	6.7	269	882	6.7	277	
12/12/2020 2:00	12/12/2020 3:00	27	29	26	44	47	41	0.2	29.1	514	5.9	285	605	6.3	284	340	5.6	253	612	5.8	276	611	5.8	284	
12/12/2020 3:00	12/12/2020 4:00	26	28	25	42	45	39	0.2	28.9	83	3.7	306	110	3.9	303	34	2.6	283	94	3.4	312	96	3.3	313	
12/12/2020 4:00	12/12/2020 5:00	28	27	24	39	42	36	0.2	29	-26	2.3	97	-14	2.4	150	-15	1.7	136	-9	2.4	41	-13	2.2	53	
12/12/2020 5:00	12/12/2020 6:00	28	29	24	41	43	36	0.2	29.2	-7	2.9	81	-6	3.0	77	-15	-2	113	-7	3.0	89	-9	2.7	93	
12/12/2020 6:00	12/12/2020 7:00	27	28	24	42	44	39	0.2	28.8	145	4.7	89	149	4.9	83	53	3.7	92	154	4.7	90	133	4.6	95	
12/12/2020 7:00	12/12/2020 8:00	31	32	25	45	47	40	0.3	28.9	366	5.8	88	367	6.0	84	196	4.7	88	306	5.4	88	323	5.4	91	
12/12/2020 8:00	12/12/2020 9:00	37	37	27	48	50	42	0.2	29.8	221	6.1	84	210	6.4	79	317	5.5	76	157	6.7	88	490	6.1	87	
12/12/2020 9:00	12/12/2020 10:00	34	36	26	48	52	43	0.5	33.1	359	6.2	89	55												

APPENDIX B

**Table B-4: Hourly Monitoring Data for Location 5**

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8			
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	
12/13/2020 5:00	12/13/2020 6:00	23	24	22	42	44	40	0.0		33.1	254	4.7	220	853	6.7	202	143	4.2	214	705	6.1	209	434	5.3	210	
12/13/2020 6:00	12/13/2020 7:00	25	25	22	43	45	40	0.1		33.1	595	5.7	201	1270	7.6	192	250	4.9	210	838	6.2	197	498	5.5	198	
12/13/2020 7:00	12/13/2020 8:00	31	32	24	47	51	42	0.2	0.01	33.1	722	5.9	217	1542	7.9	203	488	5.6	223	1098	6.9	216	812	6.1	217	
12/13/2020 8:00	12/13/2020 9:00	35	35	26	47	50	43	0.7		34.8	715	6.0	216	987	6.9	208	594	6.0	228	1069	6.9	223	559	5.5	225	
12/13/2020 9:00	12/13/2020 10:00	33	33	29	51	53	48	1.0		42.7	1089	6.8	224	816	6.3	217	891	6.8	236	1866	8.5	229	1631	7.7	232	
12/13/2020 10:00	12/13/2020 11:00	34	35	30	52	54	49	0.9		43.9	586	5.8	226	282	4.9	221	746	6.5	236	1570	8.0	231	1339	7.2	235	
12/13/2020 11:00	12/13/2020 12:00	39	40	34	55	57	51	1.8		45.4	1238	7.0	220	1616	8.0	211	1420	7.8	235	2320	9.1	227	1513	7.3	232	
12/13/2020 12:00	12/13/2020 13:00	40	42	33	55	58	51	1.8		46.4	1846	8.6	241	1606	8.2	236	1866	8.8	250	2889	11.2	246	2676	10.3	251	
12/13/2020 13:00	12/13/2020 14:00	41	43	34	57	59	53	2.2		46.3	2264	9.5	258	2321	9.8	252	1598	8.4	269	2108	9.4	265	2502	10.4	271	
12/13/2020 14:00	12/13/2020 15:00	49	53	38	61	64	55	3.9		46.8	1264	11.2	261	2215	11.3	253	2407	10.4	265	2837	11.5	261	2977	12.1	267	
12/13/2020 15:00	12/13/2020 16:00	48	53	37	62	64	55	3.8		45.2	2223	12.9	256	1680	13.1	251	3079	12.7	261	3152	14.2	259	3160	14.7	268	
12/13/2020 16:00	12/13/2020 17:00	40	43	31	54	57	47	2.2		42.8	1855	8.8	260	1718	8.4	254	882	6.5	270	1169	7.4	266	1098	7.3	270	
12/13/2020 17:00	12/13/2020 18:00	39	42	33	54	57	51	1.8		39.9	2718	10.9	258	2451	10.2	252	2127	9.6	266	2343	10.1	266	2420	10.1	270	
12/13/2020 18:00	12/13/2020 19:00	42	46	33	56	59	51	2.8		39.2	2724	10.9	257	2680	10.5	251	2337	10.0	266	2658	11.0	265	2688	11.1	271	
12/13/2020 19:00	12/13/2020 20:00	47	51	37	59	62	53	3.7		37.6	3039	14.0	258	3195	13.3	252	3104	12.1	264	3198	13.6	263	3198	14.3	270	
12/13/2020 20:00	12/13/2020 21:00	47	51	38	60	63	53	3.8		36	2940	13.3	267	3193	12.7	262	3076	11.7	271	3188	13.0	269	3197	13.7	277	
12/13/2020 21:00	12/13/2020 22:00	41	43	33	56	57	52	2.1		34.8	2921	12.2	276	3150	12.1	270	2969	11.8	273	3191	13.4	274	3195	14.0	282	
12/13/2020 22:00	12/13/2020 23:00	33	35	32	51	53	49	1.0		32.5	2852	10.9	281	2844	10.4	275	2650	8.7	277	2368	10.0	279	2564	10.2	284	
12/13/2020 23:00	12/14/2020 0:00	38	39	33	54	55	50	1.1		32.5	2933	11.3	287	3095	11.5	283	2206	9.7	283	2844	11.1	286	3030	11.4	291	
12/14/2020 0:00	12/14/2020 1:00	37	38	33	54	55	51	1.3		32.8	2713	11.2	292	2856	10.8	288	2214	9.7	288	2789	11.1	290	2859	11.1	294	
12/14/2020 1:00	12/14/2020 2:00	33	34	32	52	53	50	0.7		30.8	2342	9.9	296	2346	9.6	293	1079	7.6	293	1536	8.7	296	1750	8.7	298	
12/14/2020 2:00	12/14/2020 3:00	31	33	27	50	52	45	0.6		30.5	1448	8.3	296	1600	8.4	294	844	7.0	294	1193	7.9	299	1218	7.7	301	
12/14/2020 3:00	12/14/2020 4:00	26	27	25	45	47	43	0.1		29.2	607	6.6	299	692	6.8	297	389	6.0	292	581	6.6	298	623	6.5	301	
12/14/2020 4:00	12/14/2020 5:00	27	28	26	46	47	43	0.1		29.6	576	6.5	301	664	6.7	300	331	5.7	295	538	6.6	301	564	6.4	303	
12/14/2020 5:00	12/14/2020 6:00	39	36	28	52	53	46	1.0		31	1216	8.1	310	1134	7.8	308	693	6.6	304	963	7.7	308	1101	7.6	308	
12/14/2020 6:00	12/14/2020 7:00	32	31	26	49	50	45	1.0		32.1	508	6.2	313	524	6.2	314	288	5.3	310	390	6.0	314	418	5.8	313	
12/14/2020 7:00	12/14/2020 8:00	36	39	28	52	55	47	1.2		32.1	784	6.9	303	811	6.8	301	310	5.4	298	437	6.1	301	508	6.1	301	
12/14/2020 8:00	12/14/2020 9:00	36	39	27	51	53	46	1.2		32.5	565	6.0	265	561	6.1	262	398	5.6	261	514	5.9	267	653	6.0	275	
12/14/2020 9:00	12/14/2020 10:00	35	37	27	50	52	46	0.6		33.2	-2	2.7	284	-1	2.9	271	-12	1.9	285	-4	2.2	284	5	2.4	294	
12/14/2020 10:00	12/14/2020 11:00	31	31	23	49	49	44	0.8	Trace	33.2	-7	2.9	192	-9	3.1	185	-15	2.8	202	-10	3.1	179	-7	3.0	178	
12/14/2020 11:00	12/14/2020 12:00	34	36	23	49	50	44	1.0	Trace	32.9	-6	3.5	170	-8	3.4	149	-15	2.9	142	-8	2.8	146	-9	3.1	155	
12/14/2020 12:00	12/14/2020 13:00	37	36	24	50	51	45	1.3	0.02	32.5	-9	3.1	167	-8	3.3	157	-15	2.9	149	-9	2.6	166	-9	2.8	163	
12/14/2020 13:00	12/14/2020 14:00	36	36	23	49	51	44	1.1	0.01	32.5	-8	2.3	183	-8	2.1	184	-14	1.4	145	-8	2.0	199	-8	1.8	167	
12/14/2020 14:00	12/14/2020 15:00	35	38	25	49	52	45	0.4	Trace	32.4	60	3.6	254	46	3.3	252	40	3.4	260	120	4.3	264	143	4.3	268	
12/14/2020 15:00	12/14/2020 16:00	38	40	24	51	51	44	0.1	Trace	32.3	149	4.8	267	140	4.6	258	36	4.2	269	89	4.6	270	106	4.6	275	
12/14/2020 16:00	12/14/2020 17:00	32	33	25	48	50	44	0.3		32	524	6.5	276	558	6.4	269	362	6.0	276	498	6.6	277	545	6.5	283	
12/14/2020 17:00	12/14/2020 18:00	38	39	27	56	55	46	1.8		32.3	1193	7.9	294	1151	7.7	291	884	7.2	292	1120	7.9	293	1243	8.0	297	
12/14/2020 18:00	12/14/2020 19:00	36	38	31	52	54	48	1.9		31.3	1519	8.7	289	1585	8.6	287	1107	7.9	290	1246	8.2	292	1217	7.9	295	
12/14/2020 19:00	12/14/2020 20:00	35	35	30	51	53	47	1.4		30.7	1880	9.2	288	2212	9.7	286	914	7.2	287	1170	7.9	289	1221	7.9	294	
12/14/2020 20:00	12/14/2020 21:00	35	36	31	54	56	49	1.2		30.7	2565	10.6	287	2544	10.6	285	1188	7.7	287	1549	8.6	289	1549	8.5	293	
12/14/2020 21:00	12/14/2020 22:00	44	49	33	58	60	53	2.6		30.7	2870	11.4	289	2982	11.9	287	207	2352	11.1	289	2823	11.1	289	2851	11.3	295
12/14/2020 22:00	12/14/2020 23:00	44	48	34	58	60	54	2.7	Trace	31.1	2904	11.3	285	3059	11.8	282	2402	10.0	286	2945	11.4	286	3015	11.7	291	
12/14/2020 23:00	12/15/2020 0:00	46	51	35	60	62	55	3.3		30.7	3157	13.4	284	3113	13.8	283	3029	12.4	284	3129	13.0	284	3103	13.0	289	
12/15/2020 0:00	12/15/2020 1:00	45	49	35	59	61	55	3.1		30.4	3137	14.1	290	3148	14.2	288	2967	11.9	288	3083	12.9	288	3045	12.2	294	
12/15/2020 1:00	12/15/2020 2:00	48	51	40	62	63	55	3.7		29.7	3196	15.3	292	3194	14.5	291	3169	13.7	290	3192	14.4	289	3194	14.9	295	
12/15/2020 2:00	12/15/2020 3:00	52	55	43	65	68	57	4.7		28.9	3195	15.7	291	3195	15.4	290	3189	13.6	291	3169	14.1	290	3189	14.2	296	
12/15/2020 3:00	12/15/2020 4:00	54	58	43	68	70	57	5.2		27.7	3199	15.4	281	3199	14.9	277	3151	14.3	281	3181	15.3	281	3188	15.4	288	
12/15/2020 4:00	12/15/2020 5:00	49	52	39	62	64	56	3.9		26.7	3181	14.9	285	3186	14.8	281	3171	13.2	284	3188	14.4	282	3187	14.8	289	
12/15/2020 5:00	12/15/2020 6:00	50	54	41	63	66	56	4.4		25.9	3171	13.6	286	3182	14.0	284	3103	12.4	287	3171	13.5	286	3179	13.9	293	
12/15/2020 6:00	12/15/2020 7:00	48	52	37	61	63	54	3.9		24.9	3165	13.8	291	3174	13.7	288	2860	11.4	291	3041	12.1	290	3077	12.3	294	
12/15/2020 7:00	12/15/2020 8:00	44	49																							

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LAeq (dBA)	LA10 (dBA)	LA90 (dBA)	LCeq (dBC)	LC10 (dBC)	LC90 (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/16/2020 4:00	12/16/2020 5:00	36	39	29	53	55	48	1.9		10.5	2195	9.4	302	2223	9.2	300	1367	8.1	300	1637	8.8	304	1965	8.8	303
12/16/2020 5:00	12/16/2020 6:00	38	38	27	53	55	49	1.3		9.9	1444	8.1	299	1567	8.0	298	645	6.8	300	1114	7.9	302	1363	8.1	303
12/16/2020 6:00	12/16/2020 7:00	32	34	26	51	53	47	1.6		9.8	1600	8.2	305	1587	8.0	302	357	5.9	293	560	6.3	300	779	6.4	300
12/16/2020 7:00	12/16/2020 8:00	34	34	25	51	52	47	0.4		10.1	1126	7.8	304	1245	7.6	302	686	6.3	296	1026	7.1	307	1234	6.8	303
12/16/2020 8:00	12/16/2020 9:00	29	32	22	48	51	44	0.9		10.7	40	4.4	318	34	4.7	317	1	3.9	285	-10	4.3	299	63	4.5	297
12/16/2020 9:00	12/16/2020 10:00	35	33	22	52	50	44	0.5		12.3	8	3.9	293	53	3.8	291	-13	2.9	305	3	3.1	239	7	3.4	146
12/16/2020 10:00	12/16/2020 11:00	29	31	22	50	51	45	0.8		14.6	36	3.9	322	51	4.1	319	15	3.7	305	3	3.7	313	17	3.8	326
12/16/2020 11:00	12/16/2020 12:00	39	39	20	51	52	44	0.9		17.6	-3	3.2	129	4	3.6	184	-14	3.3	152	-11	3.3	148	-12	3.3	146
12/16/2020 12:00	12/16/2020 13:00	32	34	21	48	50	44	1.3		19.2	-8	3.6	61	-4	3.7	61	-4	4.1	93	0	3.7	82	-4	3.7	75
12/16/2020 13:00	12/16/2020 14:00	30	32	19	48	50	43	1.0		20.2	-12	3.3	110	-8	3.4	84	-15	3.2	109	-9	3.3	100	-15	3.6	101
12/16/2020 14:00	12/16/2020 15:00	31	33	19	47	49	43	1.1		20.2	4	4.5	79	58	4.7	77	70	4.9	86	123	5.2	91	104	5.0	88
12/16/2020 15:00	12/16/2020 16:00	31	33	20	48	50	43	1.0		19.8	29	4.8	93	18	4.9	84	63	5.0	97	93	5.2	98	62	5.1	96
12/16/2020 16:00	12/16/2020 17:00	29	31	20	47	48	43	1.1		19.2	5	4.6	120	3	4.6	109	-5	4.6	108	11	4.6	112	1	4.6	113
12/16/2020 17:00	12/16/2020 18:00	35	34	20	50	49	43	1.0		18.9	192	5.4	84	176	5.6	78	222	5.6	82	260	5.9	87	201	5.6	87
12/16/2020 18:00	12/16/2020 19:00	36	34	23	52	52	43	1.1		18.5	751	7.1	62	782	7.3	58	799	7.3	73	1125	8.0	75	914	7.6	75
12/16/2020 19:00	12/16/2020 20:00	29	33	21	46	48	42	1.1		18.6	409	6.3	72	479	6.5	67	489	6.5	84	654	7.1	83	543	6.8	82
12/16/2020 20:00	12/16/2020 21:00	30	33	23	46	49	43	1.3		18.6	721	7.2	73	786	7.4	68	784	7.3	81	946	7.8	82	859	7.6	83
12/16/2020 21:00	12/16/2020 22:00	33	36	25	48	50	43	1.6		18.6	1245	8.2	76	1241	8.4	72	1157	8.2	83	768	8.2	86	1193	8.3	88
12/16/2020 22:00	12/16/2020 23:00	36	38	27	51	55	44	1.6	Trace	18	1091	7.9	75	1215	8.3	70	1578	8.8	81	-7	9.3	82	1765	9.3	85
12/16/2020 23:00	12/17/2020 0:00	34	38	27	48	50	44	1.5	0.04	16.5	1918	9.3	69	1999	9.6	64	2067	9.7	76	1038	10.2	78	2311	10.3	78
12/17/2020 0:00	12/17/2020 1:00	35	37	31	50	51	47	1.5	0.09	14.5	2756	10.9	54	2845	11.2	48	2588	10.6	63	2998	11.7	65	2884	11.4	67
12/17/2020 1:00	12/17/2020 2:00	33	35	31	48	50	46	1.1	0.1	13.5	2925	11.4	40	2833	11.2	35	2464	10.0	51	3083	12.2	54	3015	12.0	55
12/17/2020 2:00	12/17/2020 3:00	37	40	33	50	51	47	1.2	0.19	13.3	3169	14.1	37	3188	14.3	33	2863	11.6	50	3175	14.1	51	3118	13.3	53
12/17/2020 3:00	12/17/2020 4:00	39	41	34	51	51	45	1.5	0.1	13.5	3165	13.4	31	3053	12.6	25	2786	11.1	42	3109	13.5	45	3134	13.4	46
12/17/2020 4:00	12/17/2020 5:00	45	48	37	57	59	47	2.3	0.11	13.8	3168	14.2	18	3153	13.5	11	2735	11.1	25	3117	14.4	30	3030	13.2	30
12/17/2020 5:00	12/17/2020 6:00	48	51	39	55	56	47	1.7	0.05	14.1	3181	14.8	25	3127	12.9	18	2728	11.5	34	3155	14.6	37	3143	14.3	38
12/17/2020 6:00	12/17/2020 7:00	41	44	35	54	54	46	1.8	Trace	14.3	3149	13.5	21	3061	12.1	14	2648	10.7	30	3046	12.8	34	3031	12.8	36
12/17/2020 7:00	12/17/2020 8:00	40	42	35	54	54	47	1.6	0.04	14.3	3195	15.3	24	3146	13.0	17	2884	11.6	32	3100	13.4	37	3136	13.6	38
12/17/2020 8:00	12/17/2020 9:00	42	44	37	57	58	48	2.0	0.04	14.7	3189	15.0	21	3168	13.8	14	2943	12.4	29	3133	14.4	32	3153	14.4	34
12/17/2020 9:00	12/17/2020 10:00	41	44	35	53	55	46	1.7	0.08	14.5	3144	14.8	13	3151	13.7	67	2229	9.8	20	3015	13.7	24	3044	12.8	26
12/17/2020 10:00	12/17/2020 11:00	37	38	32	50	52	44	1.1	0.07	15.4	2948	11.2	11	2895	10.9	63	945	7.1	19	2502	10.3	21	2796	10.8	23
12/17/2020 11:00	12/17/2020 12:00	33	35	30	47	49	43	1.0	0.08	16.3	2403	9.7	7	2427	9.9	179	618	6.3	15	1673	8.5	18	1957	9.0	19
12/17/2020 12:00	12/17/2020 13:00	36	34	29	48	48	43	1.2	0.02	17.3	1885	8.9	297	1659	8.5	350	154	4.9	10	770	6.9	65	1117	7.4	9
12/17/2020 13:00	12/17/2020 14:00	39	41	31	53	56	45	2.3	Trace	18.8	2652	10.1	350	2185	9.1	344	191	5.3	182	1292	7.8	356	968	7.1	120
12/17/2020 14:00	12/17/2020 15:00	39	42	31	52	56	45	2.3	Trace	19.8	2885	10.7	345	2872	10.6	339	250	5.4	291	1913	8.8	349	1070	7.0	355
12/17/2020 15:00	12/17/2020 16:00	43	39	31	59	54	45	1.3		20.3	3027	11.4	350	2594	9.9	343	142	4.9	184	1358	7.6	298	1155	7.2	181
12/17/2020 16:00	12/17/2020 17:00	32	33	28	47	49	43	1.2		19.2	2512	9.9	242	2098	9.0	292	459	5.8	12	1331	7.5	13	1966	8.7	13
12/17/2020 17:00	12/17/2020 18:00	31	33	26	45	47	41	1.4		18.9	1989	9.0	65	1708	8.6	296	203	4.9	19	1098	7.1	15	1587	8.2	16
12/17/2020 18:00	12/17/2020 19:00	29	31	24	44	47	40	1.2		19.7	1429	8.2	347	1181	7.7	337	101	4.6	230	570	6.3	226	474	5.7	232
12/17/2020 19:00	12/17/2020 20:00	33	34	22	47	47	39	0.6		20.1	388	5.6	327	383	5.7	324	107	4.6	311	200	5.1	322	191	5.0	322
12/17/2020 20:00	12/17/2020 21:00	28	30	22	41	43	38	0.8		19.5	610	6.2	321	563	6.3	317	127	6.5	303	163	4.8	311	187	4.5	310
12/17/2020 21:00	12/17/2020 22:00	26	25	22	40	42	37	0.7		18.9	997	6.8	322	897	6.8	319	157	4.6	309	157	4.6	311	215	4.7	310
12/17/2020 22:00	12/17/2020 23:00	26	25	21	41	42	37	0.5		18.9	933	6.8	282	725	6.4	333	65	4.0	309	220	4.6	336	446	5.4	175
12/17/2020 23:00	12/18/2020 0:00	31	31	19	45	48	36	0.9		18.6	632	6.6	172	476	6.1	219	74	4.4	208	304	5.3	113	444	5.8	121
12/18/2020 0:00	12/18/2020 1:00	27	29	19	44	47	36	1.1		18.4	531	6.2	324	446	6.0	309	157	4.7	285	216	4.8	307	260	4.7	314
12/18/2020 1:00	12/18/2020 2:00	31	25	20	43	42	37	0.6		18.6	1170	8.1	351	794	6.7	331	89	4.0	304	439	5.5	339	441	5.6	177
12/18/2020 2:00	12/18/2020 3:00	26	28	22	43	44	38	1.2		19.3	1448	8.3	356	1175	7.6	341	158	4.5	323	609	6.3	119	529	5.9	8
12/18/2020 3:00	12/18/2020 4:00	22	23	19	40	41	37	0.9		19.2	1428	8.3	5	1196	7.7	354	43	4.2	233	481	5.8	65	663	6.6	12
12/18/2020 4:00	12/18/2020 5:00	19	20	18	39	40	37	0.7		18.8	793	6.7	64	599	6.3	354	20	4.0	182	360	5.4	11	763	6.8	18
12/18/2020 5:00	12/18/2020 6:00	30	27	18	41	42	37	0.5		18.6	749	6.7	178	509	5.8	339	44	4.1	273	268	5.4	65	441	6.0	71
12/18/2020 6:00	12/18/2020 7:00	37	37	21	45	48	39	1.0		18.3	628	6.3	232	481	5.7	338	96	4.5	290	145	4.6	172	263	5.2	123
12/18/2020 7:00	12/18/2020 8:00	30	32	22	45	47																			

APPENDIX B

Table B-4: Hourly Monitoring Data for Location 5

Time Period		A-Weighted Sound Metrics			C-Weighted Sound Metrics			Local Wind at 2 meters above ground level	Regional Precipitation (Inches)	Lowest Hourly Temperature Measured at Location 5 (F)	Turbine 2			Turbine 3			Turbine 6			Turbine 7			Turbine 8		
Start	End	LA <sub>90</sub> (dBA)	LA <sub>10</sub> (dBA)	LA <sub>50</sub> (dBA)	LC <sub>90</sub> (dBC)	LC <sub>10</sub> (dBC)	LC <sub>50</sub> (dBC)				Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)	Mean Power Generation (kW)	Mean Hub Height Wind Speed (m/s)	Mean Hub Height Wind Direction (deg)
12/19/2020 3:00	12/19/2020 4:00	20	21	17	34	36	32	0.3	-2.3	-15	1.6	201	-9	1.5	191	-8	3.0	325	-10	1.7	209	-11	1.3	189	
12/19/2020 4:00	12/19/2020 5:00	21	23	19	34	35	32	0.3	-3.3	-15	1.5	192	-8	1.5	179	-14	1.2	216	-12	1.1	174	-14	1.1	178	
12/19/2020 5:00	12/19/2020 6:00	30	29	19	41	44	34	0.4	-3.5	-11	2.6	206	-10	3.2	216	-14	2.6	320	-11	2.5	216	-15	2.3	214	
12/19/2020 6:00	12/19/2020 7:00	21	23	19	37	39	35	0.0	-4.1	-16	2.6	217	-8	3.3	206	-14	2.7	280	-12	2.5	232	-12	2.4	225	
12/19/2020 7:00	12/19/2020 8:00	31	31	21	43	46	36	0.0	-4.4	-14	3.3	208	-11	2.6	201	-14	0.9	253	-11	2.3	209	-13	2.6	214	
12/19/2020 8:00	12/19/2020 9:00	30	34	21	44	47	38	0.0	-2.3	-11	2.8	206	-7	3.0	205	-15	1.9	193	-10	3.2	217	-12	2.7	212	
12/19/2020 9:00	12/19/2020 10:00	35	36	21	46	48	39	0.1	5.9	-9	2.7	184	-6	2.2	188	-14	2.2	166	-9	2.3	181	-10	2.3	182	
12/19/2020 10:00	12/19/2020 11:00	34	34	18	48	52	39	0.7	17.9	-9	2.6	190	-8	2.3	207	-14	1.2	236	-8	2.2	182	-8	2.1	177	
12/19/2020 11:00	12/19/2020 12:00	35	34	18	47	48	39	1.1	24.4	-9	2.6	201	-9	3.0	214	-15	2.5	254	-9	2.3	224	-8	2.4	231	
12/19/2020 12:00	12/19/2020 13:00	31	32	18	45	45	39	1.0	27.9	-9	2.5	246	-9	2.9	230	-15	2.5	263	-9	3.0	257	-9	2.6	274	
12/19/2020 13:00	12/19/2020 14:00	27	31	17	43	45	39	0.8	30.4	-10	2.7	195	-9	2.9	180	-15	2.6	196	-8	2.6	230	-9	2.5	231	
12/19/2020 14:00	12/19/2020 15:00	25	28	18	42	44	39	0.0	29	-2	3.8	249	-4	3.7	247	9	4.0	259	15	4.3	262	9	4.0	265	
12/19/2020 15:00	12/19/2020 16:00	30	33	18	43	46	39	0.1	25.6	-7	3.8	260	-8	3.8	255	-13	3.8	258	-1	4.1	263	-1	3.8	270	
12/19/2020 16:00	12/19/2020 17:00	31	34	18	44	47	39	0.0	23.8	-9	3.4	254	-8	3.5	249	-15	3.3	250	-2	3.5	256	-3	3.2	264	
12/19/2020 17:00	12/19/2020 18:00	27	27	18	42	45	38	0.2	22.4	128	4.7	237	133	4.7	225	-6	3.0	246	43	3.9	234	53	3.8	242	
12/19/2020 18:00	12/19/2020 19:00	26	29	16	42	45	38	0.2	21.5	-9	3.1	222	10	3.7	213	-14	2.2	218	-4	3.4	217	-5	3.3	225	
12/19/2020 19:00	12/19/2020 20:00	25	28	17	40	43	37	0.3	20	25	3.2	219	45	3.7	215	-12	2.4	233	32	3.5	220	88	4.2	225	
12/19/2020 20:00	12/19/2020 21:00	25	26	18	45	47	39	0.3	18.2	1	3.5	211	45	4.0	199	-10	3.1	202	60	3.9	212	63	3.9	221	
12/19/2020 21:00	12/19/2020 22:00	20	21	18	40	42	37	0.3	15	-8	2.9	219	94	3.9	197	-13	2.4	231	47	3.6	218	47	3.8	222	
12/19/2020 22:00	12/19/2020 23:00	27	24	19	43	44	37	0.5	14.6	72	4.2	228	462	5.8	205	37	3.4	227	359	5.6	220	585	6.1	225	
12/19/2020 23:00	12/20/2020 0:00	21	21	18	39	41	36	0.3	14.8	29	3.7	213	322	5.1	193	-13	2.6	215	334	5.3	210	246	4.5	216	
12/20/2020 0:00	12/20/2020 1:00	23	24	19	39	41	36	0.3	15.3	248	4.9	198	552	5.9	191	180	4.8	207	1361	8.0	211	880	6.1	208	
12/20/2020 1:00	12/20/2020 2:00	22	23	20	41	43	39	0.1	16.6	442	5.4	220	1158	7.2	204	446	5.6	219	2351	9.7	224	2032	8.0	219	
12/20/2020 2:00	12/20/2020 3:00	20	22	19	39	41	36	0.1	17.6	197	4.6	217	821	6.6	196	218	4.7	209	1456	8.2	210	1119	6.7	207	
12/20/2020 3:00	12/20/2020 4:00	20	21	18	39	41	37	0.1	17.8	560	5.8	197	992	7.0	190	541	5.9	207	1572	7.6	196	1051	6.5	198	
12/20/2020 4:00	12/20/2020 5:00	26	25	20	44	46	38	0.2	17.9	225	4.9	221	1535	8.2	203	536	6.0	219	1835	8.8	216	1498	7.5	214	
12/20/2020 5:00	12/20/2020 6:00	23	24	21	41	43	39	0.1	16.5	158	4.5	215	1127	7.4	202	885	7.3	216	1930	9.3	216	1700	8.3	210	
12/20/2020 6:00	12/20/2020 7:00	20	21	19	40	42	37	0.4	14.4	133	4.3	193	573	6.1	193	612	6.3	212	910	6.5	202	487	5.3	207	
12/20/2020 7:00	12/20/2020 8:00	29	27	21	46	46	40	0.0	14.5	317	5.2	202	1196	7.7	196	1356	7.9	218	1618	7.6	209	937	6.4	213	
12/20/2020 8:00	12/20/2020 9:00	34	34	22	47	50	41	0.1	17.8	218	6.0	204	627	7.5	199	1081	7.2	214	514	8.1	213	1460	7.1	209	
12/20/2020 9:00	12/20/2020 10:00	30	29	21	45	47	42	0.7	24.1	363	5.4	199	598	6.3	192	376	5.7	217	1122	6.9	202	994	6.6	204	
12/20/2020 10:00	12/20/2020 11:00	31	32	22	47	48	41	0.9	25.6	659	6.2	183	789	6.6	182	172	4.7	214	690	6.0	203	322	5.1	206	
12/20/2020 11:00	12/20/2020 12:00	30	32	23	44	47	41	0.9	26.7	635	6.2	184	871	6.8	185	90	4.4	212	400	5.5	197	348	5.2	193	
12/20/2020 12:00	12/20/2020 13:00	31	33	23	46	48	40	1.0	28.1	647	6.0	171	632	6.2	169	95	4.3	193	486	5.4	185	460	5.4	181	
12/20/2020 13:00	12/20/2020 14:00	36	39	25	49	53	41	1.6	Trace	29.2	489	6.0	171	543	6.3	169	19	3.8	170	68	4.2	173	179	4.6	175
12/20/2020 14:00	12/20/2020 15:00	32	33	24	45	48	40	0.8	Trace	30.8	293	5.7	198	568	6.4	193	171	4.6	220	174	4.7	211	108	4.4	212
12/20/2020 15:00	12/20/2020 16:00	31	34	25	45	48	40	1.3	0.01	29.2	198	5.3	183	228	5.9	184	171	4.7	205	540	5.7	194	385	5.3	193
12/20/2020 16:00	12/20/2020 17:00	33	36	26	48	52	41	1.7	0.01	28.1	276	5.2	166	485	6.0	168	144	4.7	183	594	5.7	178	396	5.2	175
12/20/2020 17:00	12/20/2020 18:00	31	33	27	44	47	40	0.3	Trace	27.8	1036	7.4	185	1587	8.5	186	321	5.2	206	1179	6.9	189	745	6.0	189
12/20/2020 18:00	12/20/2020 19:00	32	35	28	45	47	40	0.3	Trace	27.7	1201	7.6	195	2159	9.3	190	556	6.0	208	1038	6.8	196	801	6.4	199
12/20/2020 19:00	12/20/2020 20:00	31	33	27	45	48	41	0.5	28.5	904	6.9	203	2201	9.5	195	285	6.8	217	924	6.8	207	749	6.8	209	
12/20/2020 20:00	12/20/2020 21:00	33	33	29	49	51	42	0.9	29.6	715	6.6	215	2141	9.5	203	1488	8.2	223	1364	7.9	218	649	6.8	220	
12/20/2020 21:00	12/20/2020 22:00	30	32	25	44	46	39	1.1	31.4	313	6.0	216	1038	8.0	206	886	7.6	226	937	7.5	219	365	6.4	221	
12/20/2020 22:00	12/20/2020 23:00	32	33	25	46	48	39	0.9	31.5	259	6.9	216	302	8.2	214	398	8.0	231	1416	8.8	222	125	7.6	230	
12/20/2020 23:00	12/21/2020 0:00	27	29	18	42	44	32	0.8	31.7	-5	7.4	222	-5	7.9	220	-12	7.3	241	261	7.9	233	-5	7.3	236	
12/21/2020 0:00	12/21/2020 1:00	22	24	20	39	42	34	0.7	31.7	44	8.2	228	92	7.5	223	136	6.7	244	-6	7.3	239	94	7.3	238	
12/21/2020 1:00	12/21/2020 2:00	22	24	20	38	40	34	0.6	31.6	32	8.3	223	-5	8.3	219	410	6.6	233	170	7.6	229	-5	8.5	234	
12/21/2020 2:00	12/21/2020 3:00	25	27	22	42	44	37	1.0	31.9	-5	9.8	240	-42	10.0	235	785	-6	246	-6	8.3	242	155	9.0	247	
12/21/2020 3:00	12/21/2020 4:00	38	35	20	44	44	35	0.3	30.8	117	7.7	247	58	8.4	241	489	6.5	248	106	7.6	244	23	7.6	252	
12/21/2020 4:00	12/21/2020 5:00	24	25	19	38	40	34	0.3	26.2	-5	5.3	262	-5	5.2	256	371	6.0	250	-5	7.0	252	-5	6.3	256	
12/21/2020 5:00	12/21/2020 6:00	32	27	18	40	41	36	0.1	23.1	-7	3.4	263	-8	3.1	260	134	-4.7	255	-5	4.9	257	51	4.4	255	
12/21/2020 6:00	12/21/2020 7:00	24	26	20	42	44	38	0.0	23.7	48	4.8	258	13	3.3	251	110	4.8	254	-101	5.1	251	167	5.2	258	
12/21/2020 7:00	12/21/2020 8:00	34	31	21	45	45	40	0.3	22.2	205	5.2	259	241	5.2</											