ATTENDED SAMPLING OF SOUND FROM WIND TURBINE #1 AND WIND TURBINE #2

DAYTIME OPERATION

FALMOUTH, MA (Part 2)

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Executive Summary

This report presents the results of attended sound sampling of the Town of Falmouth's Wind Turbines #1 and #2 located at the Waste Water Treatment Facility on Service Road in East Falmouth during daytime operation.

In September, 2011 the Town requested that the Department of Environmental Protection (MassDEP) conduct sound sampling of Wind Turbine #1 in response to numerous noise complaints from neighbors. The purpose of that sampling was to augment the unattended sound study conducted by the Town's consultants in the summer of 2010. The results from that sampling were released in May 2012 and showed that during the quietest period of the night, sound from Wind Turbine #1 exceeded the MassDEP noise threshold of 10 decibels ("A" weighted) (dB(A)) at one location under a number of meteorological conditions. In response to that report, the Town voluntarily curtailed operation of Wind Turbine #1 and Wind Turbine #2 so that the turbines were only operated between the daytime hours from 7:00 AM until 7:00 PM.

For the daytime sampling, MassDEP staff measured sound levels at six separate residential locations during the off-peak daytime period from approximately 9:00 AM until 4:30 PM. The sound sampling protocol was designed to capture sound levels for the "worst case" conditions in the area of the wind turbines. As such, MassDEP sampled the "low" wind scenario roughly upwind and downwind from the turbines to determine the impact when the turbines were operating with the lowest background sound. MassDEP also sampled a "high" wind scenario upwind and downwind from the turbines where the turbine sound power levels were maximized.

The sampling was conducted during four days in June. Data was collected when both turbines were operating and with both turbines shut down (background or ambient). Because the sampling was attended, the study was able to focus directly on sound from the wind turbines and discard any readings that could be attributed to other sources.

The results of the field sampling indicate that during the daytime period, the combined operation of Wind Turbine #1 and Wind Turbine #2 does not exceed 10 dB(A) above background sound levels, the limit which, when exceeded, MassDEP considers a violation of MassDEP's noise regulation (310 CMR 7.10) and MassDEP's noise policy. The off-peak day time period sampled (9 am through 4:30 pm) is considered "worst case" so other times both before and after that period when background sound is elevated due to commuter and truck traffic on Rt. 28 traffic would exhibit even less impact than what was found.

Based upon octave band analysis of the sampled sound, operation of the two wind turbines does not contribute to a pure tone condition during the daytime period.

1.0 Introduction

Since 2009, the Town of Falmouth (the Town) has received numerous noise complaints from neighbors of the Town's Wind Turbines located at the Waste Water Treatment Plant on Service Road in Falmouth, MA. In June of 2010, the Town and their consultants Weston & Sampson, engaged Harris Miller Miller & Hanson, Inc. (HMMH) to perform a sound survey and quantify the noise impacts from the then-operating Wind Turbine #1. HMMH released their initial report in September 2010 and subsequent to a meeting with MassDEP on the results of the report, released an addendum on April 1, 2011.

On June 30, 2011 MassDEP sent a letter to the Falmouth Board of Selectmen and the Falmouth Board of Health with comments on the HMMH report and its addendum. The HMMH study used short- and long-term unattended sound sampling with the wind turbine operating and not operating and then compared the results to conclude that the Wind Turbine sound complied with MassDEP's noise regulation at 310 CMR 7.10 and MassDEP's noise policy. Under the policy, MassDEP considers sound emissions that result in a 10 dB(A) increase over ambient or background sound levels to violate the noise regulation. As the study done by HMMH was unattended, the report's conclusion was based on a comparison of the sound levels exceeded by 90 percent of the particular sound levels measured (L90) with wind turbine "off" versus "on". In the June 30, 2011 letter, MassDEP recommended that the unattended study results be augmented with some attended sampling. Attended sampling is consistent with the procedures MassDEP customarily uses to determine compliance with the noise regulation and policy. The resulting L90 ambient sound level could then be compared to the maximum sound level (L_{max}) attributed to Wind Turbine #1 to determine if its operation is in compliance with the MassDEP noise policy.

In September 2011, the Town requested MassDEP assistance to conduct attended sound sampling to augment the HMMH Study results. MassDEP conducted attended sound sampling in March 2012 and issued an initial report containing the findings in May 2012. The May report documented that the sound from Wind Turbine #1 exceeded 10 dB(A) above background sound levels during nighttime hours, the limit which, when exceeded, MassDEP considers a violation of MassDEP's noise regulation (310 CMR 7.10) and MassDEP's noise policy. The exceedence was found at one location under both high and low wind conditions.

Upon receipt of that report, the Town chose to curtail operations of Wind Turbine #1 as well as Wind Turbine #2, such that the Turbines only operate in the daytime from 7 am through 7 pm. To confirm that daytime operation of the two turbines together would not create sound in excess of 10 dBA, MassDEP conducted an additional round of daytime attended sound sampling.

This report presents the results of the MassDEP daytime attended sound sampling.

The results of the sound study as documented by this report are specific to the operation of Falmouth's Wind turbines #1 and #2 operating under the specific conditions cited herein. These results should not be interpreted, extrapolated or represented as being representative of the sound impacts from any other wind turbine either planned or operating.

2.0 Sampling Procedure

Prior to conducting the attended sampling, MassDEP prepared a sampling protocol and shared this with the Town. The protocol is included here as Appendix A.

2.1 Equipment

Sampling was performed with a Quest Technologies Sound Pro SE/DL Sound Meter (Type I) with accuracy to +/- 1 dB as set forth in American National Standards Institute (ANSI) S1.4-1983 for acoustical measuring devices as specified in ANSI S12.18-1994. The sampler was tripod-mounted approximately 5 feet (1.5m) above ground level. The microphone was equipped with a wind screen. The tripod was located at least 25 feet (7.5m) from any large vertical reflective surface and 5 feet (1.5m) from any small-diameter object in compliance with ANSI standards S12.9-1993/Part 3.

The sampler was calibrated and certified as accurate to standards set by National Institute of Standards & Technology (NIST) by an independent laboratory within the past 6 months and was calibrated in the field before and after each sampling study with a manufacturer-supplied acoustical calibrator which meets the standards of ANSI S1.4-1984.

For broadband impact analysis, the sampler was set to collect data in decibels for the "A" weighted scale (dB(A)) in "slow" response mode.

For analysis of pure tone, the sampler was set to collect linear sound ("Z" scale) in "slow" response mode (dB(Z)) and an octave band filter was be employed to speciate sound to each of 10 octave bands. For the pure tone analysis, Leq[1] is used.

2.2 Operating Conditions

This round of sampling was designed to evaluate the combined sound impacts of Wind Turbine #1 and Wind Turbine #2 during daytime hours. The wind conditions sampled were the same or similar to those where MassDEP found an exceedence of the 10 dB(A) limit during nighttime sampling.

The six sampling sites chosen included four that had been previously sampled during the nighttime sampling. Three of those four sites were also sampled by HMMH in their initial

[1] Leq is the level of hypothetical steady sound that has the same energy as the fluctuating sound observed.

study. Two additional sites, 124 Ambleside Drive and 321 West Falmouth Highway, were added to better define sound impacts from the combined operation of Wind Turbine #1 and Wind Turbine #2. Selected sampling conditions (wind direction and wind speeds) were based on input from the residents to reflect conditions during which they report the greatest sound impacts.

Consistent with the night time sampling, MassDEP tried to capture sound from two different wind speed scenarios: Wind speeds just above cut-in when the ambient sound is the lowest (3-4 m/s) and wind speeds above 10 m/s or above the wind speed determined to generate the maximum sound power level per the manufacturer. The reason for these two wind speeds is to obtain sound samples with a quiet background, and samples with Maximum Turbine Sound (and loud background) . These conditions were difficult to achieve when limiting the selection to certain wind directions. What transpired in practice was four "studies" that combine various wind speeds and wind directions. These studies are representative of the range of conditions that MassDEP initially defined in the protocol and which achieve the same goals. The specific conditions sampled are defined in the table below:

Table 1. Summary of Study Operating Conditions [are direction and speed inverted in the 2 right columns, versus the heading?]

Study #	Location	Avg Wind Speed at site (m/s)	Avg Wind Direction (degrees)/ Wind Speed (m/s) CGAS	Avg Wind Direction (degrees)/ Wind Speed (m/s) at Hub
STUDY #1 31 May 2012	260 Fire Tower Rd	Calm	3.6 / 040	2.9 / 048
	211 Blacksmith Shop Rd	Calm	6.2 / 070	3.9 / 060
	161 Blacksmith Shop Rd	Calm	4.1 / 050	3.3 / 060
	27 Ridgeview Rd	Calm	3.6 / 040	2.7 / 055
	27 Ridgeview Rd (Amb)	Calm	4.6 / 040	2.7 / 055
	211 Blacksmith Shop Rd (Amb)	Calm	2.6 / 030	< 1 / 020
STUDY #2 5 Jun 2012	211 Blacksmith Shop Rd	< 1	4.6 / 030	8.2 / 012
	161 Blacksmith Shop Rd	< 1	3.6 / 030	7.7 / 010
	27 Ridgeview Rd	< 1	4.6 / 020	8.6 / 018
	124 Ambleside Drive	< 1	4.6 / 010	9.7 / 021
	821 West Falmouth Hwy	< 1	6.2 / 020	8.2 / 006
	260 Fire Tower Rd (Amb)	< 1	5.1 / 040	5.0 / 003
	27 Ridgeview Rd (Amb)	< 1	5.6 / 000	6.7 / 014
	124 Ambleside Dr (Amb)	< 1	5.1 / 020	7.9 / 021
STUDY #3 12 June 2012	211 Blacksmith Shop Rd	2.3	7.1 / 190	7.2 / 173
	260 Fire Tower Rd	2.1	7.7 / 170	7.4 / 173
	161 Blacksmith Shop Rd	2.5	7.7 / 170	6.5 / 180
	821 West Falmouth Highway	2.0	8.2 / 170	7.3 / 185
	211 Blacksmith Shop Rd (Amb)	2.6	6.1 / 180	6.1 / 170
	821 West Falmouth Hwy	2.0	7.3 / 180	7.7 / 173

Study #	Location	Avg Wind Speed at site (m/s)	Avg Wind Direction (degrees)/ Wind Speed (m/s) CGAS	Avg Wind Direction (degrees)/ Wind Speed (m/s) at Hub
	(Amb)			
STUDY #4 20 June 2012	260 Fire Tower Rd	< 1	6.7 / 250	9.7 / 248
	211 Blacksmith Shop Rd	2.5	6.7 / 240	8.6 / 247
	161 Blacksmith Shop Rd	2.5	8.7 / 250	9.6 / 247
	124 Ambleside Drive	2.0	4.1 / 230	10.6 / 241
	211 Blacksmith Shop RD (Amb)	2.4	5.7 / 240	10 / 249
	124 Ambleside Dr (Amb)	2.0	7.2 / 240	12.9 / 251

Meteorological or METARS data was obtained from the Coast Guard Air Station (CGAS) at the Massachusetts Military Reservation in North Falmouth. The Town provided hub-height wind speed and wind direction data (10 minute averages) obtained from meteorological equipment on Wind Turbine #1. Ground level winds were measured using a hand held anemometer.

2.3 Sampling Sites

Sampling sites included four of the five sampling sites from the May 2012 study including 270 Fire Tower Road, 161 Blacksmith Shop Road, 211 Blacksmith Shop Road and 27 Ridgeview Road. Additional sites added to evaluate sound impacts of Wind #2 included 124 Ambleside Drive and 821 West Falmouth Highway. The sampler was positioned in the front yard of each site on Blacksmith Shop Road, in the cul-de-sac in front of 124 Ambleside Drive and in the backyard at 27 Ridgeview Road and 821 West Falmouth Highway.

2.4 Procedure

From May 15 through June 15, 2012 Wind Turbine #2 was operating and Wind Turbine #1 was shut down. On each day when conditions appeared to be optimal for sampling, MassDEP asked the Town to restart Wind Turbine #1. After June 16, 2012, Wind Turbines #1 and #2 were operated together from 7:00 AM until 7:00 PM each day. The MassDEP technician and a local resident (Todd Drummey of Blacksmith Shop Road) met at a previously agreed to location (usually the West Falmouth Library) approximately 30 minutes before the start of sampling to organize the order of sampling for the day.

Sampling would begin when wind conditions reached or exceeded the minimum for the purpose. Sampling days were selected based on the predicted wind conditions (wind direction and wind speed) for the day. The start of sampling was dictated by the wind conditions on any particular day. Local activity such as construction and lawn care was also taken into account (sampling was not conducted where lawnmowers were in use or audible in the neighborhood).

Sampling for each study would take from 3-4 hours to complete. Once sampling of wind turbine sound was complete, the MassDEP technician communicated with Town personnel who then shut down both Wind Turbines to allow for ambient sampling to be performed. It took approximately 15 minutes to shut down the wind turbines from the time of the call. Ambient sampling took another 1-2 hours to complete.

As this was an attended study, the technician manually recorded the readings from the sampler. The technician wrote down the dB(A) reading (1 second average) shown by the sampler every 5 seconds during each sample run (5 minutes). There was a minimum of 3 five-minute sample runs for each site in each study. In the course of writing down the readings, the technician flagged sound readings that were influenced by a transient sound such as a passing motor vehicle or airplane. This information would not have been available had the survey been unattended. As expected, the incidence of interference in the daytime sampling was significantly greater than during nighttime sampling.

Sampling done under higher wind conditions was more challenging when the sound of wind in the trees in large gusts overwhelmed the sound from the wind turbine. Any such occurrences were documented so that the impacts of the wind turbine sound could be verified as not masked or influenced by other sound sources.

Similar to the nighttime study, a major challenge with the daytime study was the assessment of wind turbine sound west of Route 28. The sound profile in that area was found to be dominated by highway noise and it was more difficult to segregate wind turbine sound from traffic sound.

The sampler logged data at 1 second intervals. This logged data was used for quality assurance and quality control.

2.5 Limitations

There has been much public debate in Falmouth over how noise sampling for wind turbines should be conducted. It is therefore important to disclose what MassDEP did not sample in the course of doing this study. The following was not sampled in this study:

- MassDEP did not sample at a frequency or on a scale that would allow any evaluation of amplitude modulation.
- MassDEP does not have the type of equipment to adequately and accurately measure and evaluate infrasound levels.
- MassDEP set the sampler to "slow" response consistent with the MassDEP procedures for sampling sound for compliance assessment. The results will therefore differ from a sampler set to collect data in "fast" response mode. The sampler used Todd Drummey was set to "fast" response.

In the pure tone analysis, MassDEP collected low frequency sound data but has drawn no conclusions about this information. A low frequency sound assessment would need to be refined utilizing equipment specifically signed for that purpose and with more information about the frequency distribution of the sound from the wind (absent a wind turbine).

Finally, there are two other conditions specific to this study that should be identified.

1. During the May 31 sampling study, winds were so close to the cut-in point (minimum wind speed for turbine operation) that wind turbine operation was fluctuating in response to wind speed fluctuation, making it difficult to identify a maximum sound impact. We also noted that there was little or no power generated during the study, or that there is was a problem transmitting the data to the powerdash site. This may indicate that the turbines were not producing a "normal" sound level for this period.

2. During the of June 12 and June 20 studies, MassDEP tried to capture the higher wind speeds where sound power output from the turbines would be maximized. Upon evaluation of the meteorological data in the days following the sampling dates, we found that average wind speeds were close to but not consistently above the levels necessary to generate maximum sound from the turbines.

While it is important to acknowledge these two limitations, they must also be taken in context of the results of the sampling. The sampling results showed that turbine sound impact was less than MassDEP 10 dB(A)-over-background threshold with a considerable margin of safety, such that, in the absence of the two limitations described above, it is unlikely that there would have been a significant difference in the results.

3.0 Results

MassDEP's Noise policy states: *"A source of sound emissions is considered to be violating MassDEP's noise regulation (310 CMR 7.10) if the source:*

1. Increases the broadband sound level by more than ten dB(A) above ambient, or

2. Produces a "pure tone" condition – when any octave band center frequency sound pressure level exceeds the two adjacent center frequency sound pressure levels by three decibels or more."

This section summarizes the results from the attending sampling described in this report. For the sampling summary sheets showing all the collected data, the meteorological data as well as the statistical metrics from the sound sampler are included here as Appendix B.

3.1 Broadband Sound Impact

To determine broadband sound level impact, the collected data is evaluated to compare L_{90}[2] sound levels to L_{max} attributable to the turbines. As stated in the protocol, the L_{max}[3] for each of the three five-minute runs collected at each site under each operating condition was averaged to calculate an L_{max} value that was then compared to the L_{90} background for each operating condition. The L_{max} is intended to takes into account only sound impacts that can be attributed to Wind Turbines #1 and #2. With an attended study, the attending technician "throws out" any sound that came from an interfering source such as a motor vehicle or an airplane. The following table summarizes the results of the broadband sound impact study.

Table 2. Summary of Broadband Analysis

Study #	Location	Ambient (L90) dB(A)	Impact Sound (Lmax) dB(A)	Difference dB(A)
STUDY #1 31 May 2012	260 Fire Tower Rd	32.4	37.6	5.2
	211 Blacksmith Shop Rd	32.4	40.0	7.6
	161 Blacksmith Shop Rd	32.4 (note 1)	39.9	7.5
	27 Ridgeview Rd	50.1	54.3	4.2
STUDY #2 5 Jun 2012	211 Blacksmith Shop Rd	40.7	45.4	4.7
	161 Blacksmith Shop Rd	40.7(note 1)	46.7	6.0
	27 Ridgeview Rd	52.5	56.5	4.0
	124 Ambleside Drive	48.9	54	5.1
	821 West Falmouth Hwy	48.9	54.6	5.7
STUDY #3 12 June 2012	211 Blacksmith Shop Rd	42.5	46.9	4.4
	260 Fire Tower Rd	42.5	47.3	4.8
	161 Blacksmith Shop Rd	42.5 (note 1)	44.5	2.0
	821 West Falmouth Highway	48.9	55.5	6.6
STUDY #4 20 June 2012	260 Fire Tower Rd	44.5	46	1.5
	211 Blacksmith Shop Rd	44.5	49.5	5
	161 Blacksmith Shop Rd	44.5 (note 1)	48.2	3.7
	124 Ambleside Drive	50.2	52.2	2

NOTES:

(1) Background from 211 Blacksmith Shop Rd. or 260 Fire Tower Rd was used at 161 Blacksmith Shop Rd which is extremely conservative as actual background at161 Blacksmith Shop Rd was much more influenced by highway noise than either of the sites where background was taken.

As Table 2 indicates, we did not observe any exceedence of the MassDEP 10 dB(A)- above-ambient limit for what constitutes "noise" pursuant to 310 CMR 7.10.

[2] L90 is the decibel level that is exceeded 90% of the time and therefore reflects a quiet background or ambient condition.

[3] Lmax is the maximum decibel level attributable to the sound source being studied.

3.2 Pure tone

As previously indicated in the May 2012 report, assessment of pure tone when sampling wind turbine sound is complicated by the sound of the wind as the wind itself contributes to the tonal quality of sound particularly at higher wind speeds. In order to attempt to separate the contribution of the wind from the contribution of the wind turbine, center octave band readings were taken with Wind Turbines #1 and #2 off as well as when they were operating. It was then possible to determine the incremental sound level increase associated with operation of the turbines at each of the center octave bands.

The following tables show the results of the octave band analysis for pure tone at low wind speed on May 31 and June 5 and at high wind speeds on June 20. To negate the contribution of the wind to the pure tone assessment, we only compared the differential to the pure tone standard (a condition of pure tone would have been found if the differential had been 3 dBZ in any single octave band that both of the adjacent octave bands). Our conclusion is that operation of the wind turbines does not contribute to a pure tone above and beyond that which may be caused by the wind alone. It should be noted that the pure tone analysis at 124 Ambleside Drive was significantly influenced by highway noise in both the 4000 Hz and 8000 Hz octave bands specifically from tire whine from passing cars and trucks.

Table 3. Octave Band Analysis for Pure Tone (May 31, 2012)

dBZ (Leq)			
Frequency (Hz)	211 Blacksmith Shop Rd		
	Turbines On	Turbines Off	Differential
31.5	45.5	41.1	-4.4
63.0	37.6	33.9	-3.7
125	38.5	37.4	-1.1
250	30.6	25.4	-5.2
500	27.4	26.3	-1.1
1000	25.4	24.6	-1.0
2000	18.1	17.2	-0.9
4000	16	14.8	-1.2
8000	13	15	2.0
16000	11.1	11.4	0.3

Table 4. Octave Band Analysis for Pure Tone (June 5, 2012)

Frequency (Hz)	dBZ (Leq)					
	211 Blacksmith Shop Rd			124 Ambleside Dr		
	Turbines On	Turbines Off	Differential	Turbines On	Turbines Off	Differential
31.5	46.2	42.8	-3.4	53.2	50.3	-2.9
63.0	44.7	38.8	-5.9	48.8	50.5	1.7
125	46	38.6	-7.4	45.5	45	-0.5
250	35.9	34.6	-1.3	40.6	41.6	1
500	36.3	34.3	-2	40.3	41.1	0.8
1000	34	33	-1	45.6	44.8	-0.8
2000	26.7	26.3	-0.4	38.1	37.5	-0.6
4000	25.1	35.2	10.1	30	34.3	4.3
8000	22.7	23.2	0.5	23.6	21.7	1.9
16000	12.2	13.2	1.0	13.1	12.6	-0.5

Table 5. Octave Band Analysis for Pure Tone (June 20, 2012)

Frequency (Hz)	dBZ (Leq)					
	211 Blacksmith Shop Rd			124 Ambleside Dr		
	Turbine On	Turbine Off	Differential	Turbine On	Turbine Off	Differential
31.5	56.5	56.1	-0.4	53.1	56.1	3.0
63.0	50.6	50.8	0.2	51.4	50.8	-0.6
125	46.5	44.9	-1.6	48.6	44.9	-3.7
250	39.9	38.3	-1.6	39.9	38.3	-1.6
500	39.7	39.3	-0.4	39	39.3	0.3
1000	39.3	39.8	0.5	43.1	39.8	-3.3
2000	36.8	34.3	-2.5	40.7	34.3	-6.4
4000	37.6	35.3	-2.3	41.5	35.3	-6.2
8000	34.9	32.4	-2.5	30.2	32.4	2.2
16000	25.6	24.2	-1.4	17.2	24.2	7

APPENDIX A

SAMPLING PROTOCOL

Equipment:

- Sampling will be performed with a Type I digital Meter (Quest Sound Pro SEL) with accuracy to +/- 1 dB. The sampler will be set to collect data on the "A" weighted scale in "slow" response mode with a one second recording interval (log period). The sampler will be calibrated before and after each sampling period.
- Ground level wind speed will be extrapolated from nearby airport data, including data from Otis Air Station augmented with a handheld wind instrument for each sampling site. The Town of Falmouth will provide hub-height wind speeds (10 minute averages) obtained from equipment on Wind #1 and Wind #2.

Sampling Sites and Operating Conditions:

- Six sites will be monitored at the point of perceived maximum impact for the Wind #1 and Wind #2. The sites include 161 Blacksmith Shop Road, 211 Blacksmith Shop Road, 260 Fire Towner Road, 27 Ridgeview Road, 124 Ambleside Drive and 821 West Falmouth Highway.
- MassDEP will coordinate with the residents at the selected sites to determine point of greatest impact and will conduct the sampling at or near that location or at the property line, whichever is practicable.
- Four different operating conditions (wind speeds/ wind direction) will be evaluated including:
    1. At or near the cut-in wind speed where background sound will be the lowest (4-5 m/s wind speed at hub height) with winds from the Southwest
    2. At or near the cut-in wind speed where background sound will be the lowest (4-5 m/s wind speed at hub height) with winds from the Northeast;
    3. At the wind speed where manufacturer data indicates there will be the greatest sound power level from the turbine (8-11 m/s) with winds from the Southwest and,
    4. At a wind speed at or near where the manufacturer data indicates the turbines will produce the greatest sound power level (8-11 m/s) with winds from the Northwest.
    5. Additional scenarios may be added if time and conditions permit.

Procedure:

- Sampling will be conducted during day time off-peak hours (9 am – 4pm) on week days.
- Sampling days will be selected based on predicted wind conditions. The Town as well as residents will be notified of sampling events at least 24 hours in advance.
- To evaluate the effect of wind speed on turbine sound emission levels (impact sound), three sampling runs will be conducted at each site under each operating condition to establish an L_{max} for each respective wind turbine operating condition. L_{max} is the highest sampled sound level during the sampling run on a one second average. The L_{max} from each run at a single site and operating condition will be averaged to create the L_{max} for that sampling event.
- Each sampling run will be 5 minutes in duration. Samples will be collected manually every 5 seconds (60 sound measurements). To ensure data capture of the highest sound level emitted by the turbine as the blade rotates past the tower, each 5-minute study for turbine operation will be initiated as near as possible to the wind turbine sound cycle emission peak. Consistent with

current guidance, any peak sound levels that can be attributed to another sound source (e.g. local traffic, resident generated sounds, etc.) will be identified by the study attendant and discarded from the data set before determining L_{max}.

- At four sites, (211 Blacksmith Shop Road, 161 Blacksmith Shop Rd, 821 West Falmouth Highway and 27 Ridgeview Road), a pure tone analysis will be conducted. For pure tone analysis, the meter will be set to collect linear sound on a "slow" response and an octave band filter will be employed to speciate sound pressure levels for 9 octave bands. Pure tone analysis will include collection of one minute L_{eq} sound pressure levels with the wind turbines operating and without the wind turbines operating to evaluate the impact of the wind turbines to pure tone.
- At four sites (211 Blacksmith Shop Road, 124 Ambleside Drive. 821 West Falmouth Highway and 27 Ridgeview Road), background sampling shall be performed to determine the L_{90} background against which the L_{max} will be compared. Sampling for background will require coordination with the Town of Falmouth to shut down Wind #1 and Wind #2 .

Assessment of Results

Once the data is collected, the L_{90} background as defined by sampling will be compared to the average L_{max} for each of the sampling sites and under each of the operating scenarios. The result will be compared to the MassDEP Noise Policy Threshold for impact sound of 10 dB(A). The pure tone data will be analyzed to determine if the sound from the wind turbines causes any octave band center frequency sound pressure level to exceed the two adjacent center frequency sound pressure levels by three decibels or more.

APPENDIX B

SAMPLING DATA

Broadband Impact Analysis

260 Fire Tower Rd			
Date: 31 May 2012			
Time: 12:32 pm			
Run #	mm:ss	dB(A)	
1	5	36.9	Lmax
1	10	34.8	
1	15	34.6	
1	20	39.7	x
1	25	36	x
1	30	34.9	
1	35	36.8	
1	40	44.7	x
1	45	50.3	x
1	50	44.4	x
1	55	36.9	x
1	60	34.7	
1	1:05	34.5	
1	1:10	34.4	
1	1:15	34.1	
1	1:20	34.4	
1	1:25	34.9	
1	1:30	34.4	
1	1:35	34.8	
1	1:40	34.8	
1	1:45	35.6	
1	1:50	34.7	
1	1:55	34.7	
1	2:00	35.7	
1	2:05	35.6	x
1	2:10	36	x
1	2:15	36.4	x
1	2:20	37.6	x
1	2:25	37.7	x
1	2:30	35.6	x
1	2:35	34.9	x
1	2:40	35	x
1	2:45	35.4	x
1	2:50	33.7	
1	2:55	34.3	
1	3:00	34.4	
1	3:05	33.5	
1	3:10	33.4	
1	3:15	33.2	
1	3:20	34.1	
1	3:25	36.2	
1	3:30	43.9	x
1	3:35	37.6	x
1	3:40	38.9	x
1	3:45	36.9	x
1	3:50	36.6	
1	3:55	35.9	
1	4:00	36.8	x
1	4:05	39	x
1	4:10	34.7	
1	4:15	35.9	
1	4:20	43.3	x

260 Fire Tower Rd			
Date: 31 May 2012			
Time: 12:40 pm			
Run #	mm:ss	dB(A)	
2	5	38.5	x
2	10	38.1	x
2	15	38.6	x
2	20	38.9	x
2	25	36.2	x
2	30	37.1	x
2	35	36.5	x
2	40	36.8	x
2	45	36.7	x
2	50	37.1	x
2	55	38.2	x
2	60	37.2	x
2	1:05	36	x
2	1:10	36.1	x
2	1:15	41.4	x
2	1:20	38	x
2	1:25	35.5	
2	1:30	36.4	
2	1:35	35.3	
2	1:40	35.4	
2	1:45	38.4	x
2	1:50	51	x
2	1:55	56.1	x
2	2:00	42	x
2	2:05	36.2	x
2	2:10	34.9	
2	2:15	35.3	
2	2:20	35.7	
2	2:25	34.7	
2	2:30	34.9	
2	2:35	35.2	
2	2:40	35.8	
2	2:45	35.4	
2	2:50	37	Lmax
2	2:55	35.2	
2	3:00	34.1	
2	3:05	34.4	
2	3:10	35.6	
2	3:15	35.6	
2	3:20	34.9	
2	3:25	35.2	
2	3:30	34.2	
2	3:35	34.8	
2	3:40	35.7	
2	3:45	34.6	
2	3:50	37.3	x
2	3:55	44.3	x
2	4:00	51.6	x
2	4:05	46	x
2	4:10	36.7	x
2	4:15	34.7	
2	4:20	35.1	

260 Fire Tower Rd			
Date: 31 May 2012			
Time: 12:46 pm			
Run #	mm:ss	dB(A)	
3	5	50.3	x
3	10	42.3	x
3	15	39	x
3	20	48.3	x
3	25	38.6	x
3	30	45	x
3	35	42.2	x
3	40	38.6	
3	45	37.9	
3	50	48.8	x
3	55	40.6	x
3	60	37.4	
3	1:05	36.6	
3	1:10	36.5	
3	1:15	37	
3	1:20	36.2	
3	1:25	36.2	
3	1:30	35	
3	1:35	35.1	
3	1:40	33.9	
3	1:45	35.3	
3	1:50	33.2	
3	1:55	33	
3	2:00	37.2	
3	2:05	32.7	
3	2:10	32.8	
3	2:15	35.5	x
3	2:20	48	x
3	2:25	50.7	x
3	2:30	42.5	x
3	2:35	38	
3	2:40	38.4	
3	2:45	33.6	
3	2:50	39	Lmax
3	2:55	33.1	
3	3:00	34.1	
3	3:05	33.9	
3	3:10	35.8	
3	3:15	37.6	
3	3:20	36.1	
3	3:25	36.4	
3	3:30	36.6	
3	3:35	40.1	x
3	3:40	39	x
3	3:45	42.1	x
3	3:50	43	x
3	3:55	43.8	x
3	4:00	43.3	x
3	4:05	42.9	x
3	4:10	42.1	x
3	4:15	42.3	x
3	4:20	39.6	x

Broadband Impact Analysis

260 Fire Tower Rd			
Date: 31 May 2012			
Time: 12:32 pm			
Run #	mm:ss	dB(A)	
1	4:25	39.1	x
1	4:30	38.2	x
1	4:35	42.9	x
1	4:40	43.4	x
1	4:45	51.9	x
1	4:50	49.1	x
1	4:55	38.3	x
1	5:00	36.7	

260 Fire Tower Rd			
Date: 31 May 2012			
Time: 12:40 pm			
Run #	mm:ss	dB(A)	
2	4:25	39.7	x
2	4:30	35.1	
2	4:35	35.3	
2	4:40	35.9	
2	4:45	35.3	
2	4:50	36.7	x
2	4:55	42.7	x
2	5:00	40	x

260 Fire Tower Rd			
Date: 31 May 2012			
Time: 12:46 pm			
Run #	mm:ss	dB(A)	
3	4:25	37.8	
3	4:30	36.6	
3	4:35	37.8	
3	4:40	35.4	
3	4:45	34.5	
3	4:50	36.4	
3	4:55	42.8	x
3	5:00	51.2	x

Lmax (Avg)	37.6	dBA

Sampler Summary Data (Does NOT Exclude interference sound)								
Lmax	53	dBA	Lmax	57	dBA	Lmax	54.4	dBA
Leq	41	dBA	Leq	42.5	dBA	Leq	42.9	dBA
L01	52.2	dBA	L01	56.3	dBA	L01	52	dBA
L10	43.2	dBA	L10	42	dBA	L10	47.8	dBA
L50	35.8	dBA	L50	36	dBA	L50	37.7	dBA
L90	34	dBA	L90	34.6	dBA	L90	33.7	dBA
LC-A	11.8	dBA	LC-A	8.3	dBA	LC-A	10.4	dBA

Met Data		
WS at Ground	calm	m/s
WS at Hub	2.9	m/s
WS at CGAS	3.6	m/s
WD at Hub	48	degrees
WD at CGAS	40	degrees
BP	29.75	in
Humidity	48.2	%
Temp	77	degr F

Boardband Impact Analysis

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 1:06 pm			
Run #	mm:ss	dB(A)	
1	5	39.7	
1	10	38.4	
1	15	36.9	
1	20	39.2	
1	25	37.9	
1	30	38.5	
1	35	38.6	
1	40	39.9	Lmax
1	45	39.6	
1	50	39	
1	55	39.1	
1	60	38.7	
1	1:05	37.8	
1	1:10	39.7	
1	1:15	38.1	
1	1:20	38.4	
1	1:25	38.5	
1	1:30	38.8	
1	1:35	39.4	
1	1:40	39.2	
1	1:45	38.2	
1	1:50	38.4	
1	1:55	38.3	
1	2:00	39.4	
1	2:05	38.3	
1	2:10	37.8	
1	2:15	38.9	
1	2:20	38.1	
1	2:25	37.7	
1	2:30	37.1	
1	2:35	37.5	
1	2:40	37.5	
1	2:45	37.5	
1	2:50	41.9	x
1	2:55	48	x
1	3:00	44.2	x
1	3:05	55.9	x
1	3:10	62.2	x
1	3:15	57.6	x
1	3:20	54.9	x
1	3:25	44.1	x
1	3:30	38	
1	3:35	38.2	
1	3:40	38.4	

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 1:24 pm			
Run #	mm:ss	dB(A)	
2	5	37.4	
2	10	36.6	
2	15	37.2	
2	20	39.4	Lmax
2	25	38.2	
2	30	36	
2	35	34.4	
2	40	37.6	
2	45	34.2	
2	50	34.1	
2	55	34.4	
2	60	34.6	
2	1:05	34	
2	1:10	35.8	
2	1:15	45.9	x
2	1:20	44.2	x
2	1:25	37.1	x
2	1:30	35.1	x
2	1:35	40	x
2	1:40	43.3	x
2	1:45	44.5	x
2	1:50	40.2	x
2	1:55	45.9	x
2	2:00	46.8	x
2	2:05	38.4	x
2	2:10	37.7	x
2	2:15	35	
2	2:20	35.1	
2	2:25	34.1	
2	2:30	32.7	
2	2:35	42.4	x
2	2:40	33.8	
2	2:45	35.6	
2	2:50	32.9	
2	2:55	33.8	
2	3:00	32.8	
2	3:05	33.4	
2	3:10	33.5	
2	3:15	33.9	
2	3:20	31.1	
2	3:25		
2	3:30		
2	3:35		
2	3:40		

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 1:39 pm			
Run #	mm:ss	dB(A)	
3	5	38.8	
3	10	35.7	
3	15	40.5	x
3	20	46.5	x
3	25	39.1	
3	30	36.8	
3	35	36.4	
3	40	37.5	
3	45	36.4	
3	50	36.8	
3	55	43.6	x
3	60	47.6	x
3	1:05	50.4	x
3	1:10	63.9	x
3	1:15	63.2	x
3	1:20	49.7	x
3	1:25	40.4	Lmax
3	1:30	38.3	
3	1:35	36.7	
3	1:40	36.1	
3	1:45	37	
3	1:50	36	
3	1:55	36.1	
3	2:00	37	
3	2:05	36.7	
3	2:10	39.7	
3	2:15	37.8	
3	2:20	43.2	x
3	2:25	43.3	x
3	2:30	43	x
3	2:35	42.2	x
3	2:40	39.2	
3	2:45	44.2	x
3	2:50	46.5	x
3	2:55	39.1	
3	3:00	36.9	
3	3:05	37	
3	3:10	36.9	
3	3:15	37.2	
3	3:20	36.9	
3	3:25	37.7	
3	3:30	36.4	
3	3:35	37.2	
3	3:40	37.7	

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 1:44 pm			
Run #	mm:ss	dB(A)	
4	5	38.4	
4	10	37.4	
4	15	38	
4	20	39.1	x
4	25	48.2	x
4	30	42.2	x
4	35	40	
4	40	45	x
4	45	54.7	x
4	50	45.9	x
4	55	40.2	Lmax
4	60	37.7	
4	1:05	36.5	
4	1:10	38.3	
4	1:15	38.3	
4	1:20	38.7	
4	1:25	39.1	
4	1:30	38.1	
4	1:35	37.8	
4	1:40	37.9	
4	1:45	37.8	
4	1:50	37.6	
4	1:55	37.1	
4	2:00	36.9	
4	2:05	36.7	
4	2:10	36.7	
4	2:15	36.4	
4	2:20	37.8	
4	2:25	37.2	
4	2:30	37.8	
4	2:35	38.8	
4	2:40	39.3	
4	2:45	38.4	
4	2:50	37.2	
4	2:55	37.1	
4	3:00	36.3	
4	3:05	35.4	
4	3:10	34.7	
4	3:15	35.1	
4	3:20	35.9	
4	3:25	37.8	
4	3:30	38.1	x
4	3:35	37.1	x
4	3:40	36.2	

Boardband Impact Analysis

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 1:06 pm			
Run #	mm:ss	dB(A)	
1	3:45	38.7	
1	3:50	37.4	
1	3:55	38.6	
1	4:00	38.4	
1	4:05	37.2	
1	4:10	38.2	
1	4:15	37.3	
1	4:20	38.3	
1	4:25	38.2	
1	4:30	38.6	
1	4:35	38.5	
1	4:40	39.2	
1	4:45	43.6	x
1	4:50	47.5	x
1	4:55	46	x
1	5:00	45.3	x

211 Blacksmith Shop Rd		
Date: 31 May 12		
Time: 1:24 pm		
Run #	mm:ss	dB(A)
2	3:45	
2	3:50	
2	3:55	
2	4:00	
2	4:05	
2	4:10	
2	4:15	
2	4:20	
2	4:25	
2	4:30	
2	4:35	
2	4:40	
2	4:45	
2	4:50	
2	4:55	
2	5:00	

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 1:39 pm			
Run #	mm:ss	dB(A)	
3	3:45	36.2	
3	3:50	38.5	
3	3:55	37.6	
3	4:00	37.1	
3	4:05	37	
3	4:10	39.7	
3	4:15	43.7	x
3	4:20	37.1	
3	4:25	46.1	x
3	4:30	47.5	x
3	4:35	37.3	
3	4:40	38.5	
3	4:45	39.4	
3	4:50	37.8	
3	4:55	37.4	
3	5:00	36.2	

211 Blacksmith Shop Rd		
Date: 31 May 12		
Time: 1:44 pm		
Run #	mm:ss	dB(A)
4	3:45	35.9
4	3:50	36.8
4	3:55	36.1
4	4:00	35.2
4	4:05	35.9
4	4:10	35.6
4	4:15	35.8
4	4:20	35.7
4	4:25	35.9
4	4:30	35.5
4	4:35	35.6
4	4:40	35.9
4	4:45	35.9
4	4:50	36.4
4	4:55	35.2
4	5:00	35.3

Lmax (Avg)	40.0	dBA

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	64.5	dBA
Leq	48	dBA
L01	61.7	dBA
L10	47	dBA
L50	38.4	dBA
L90	37.5	dBA
LC-A	20.9	dBA

Lmax	55.1	dBA
Leq	41.1	dBA
L01	52.2	dBA
L10	44.7	dBA
L50	35.4	dBA
L90	32.6	dBA
LC-A	10.7	dBA

Lmax	65.9	dBA
Leq	49.4	dBA
L01	64.6	dBA
L10	46.2	dBA
L50	37..7	dBA
L90	36.2	dBA
LC-A	21	dBA

Lmax	55.8	dBA
Leq	41	dBA
L01	54.4	dBA
L10	40.5	dBA
L50	37.2	dBA
L90	35.3	dBA
LC-A	12.3	dBA

Met Data		
WS at Ground	calm	m/s
WS at Hub	3.9	m/s
WS at CGAS	6.2	m/s
WD at Hub	60	degrees
WD at CGAS	70	degrees
BP	29.75	in
Humidity	50	%
Temp	77	degr F

Broadband Impact Analysis

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:07 pm			
Run #	mm:ss	dB(A)	
1	5	39.9	Lmax
1	10	39.9	
1	15	38.4	
1	20	38.3	
1	25	39.6	x
1	30	41	x
1	35	40.8	x
1	40	39	x
1	45	39.1	x
1	50	40	x
1	55	41.7	x
1	60	44	x
1	1:05	40.9	x
1	1:10	45.3	x
1	1:15	45.7	x
1	1:20	44.9	x
1	1:25	40.4	x
1	1:30	42.5	x
1	1:35	41.8	x
1	1:40	39.4	x
1	1:45	40	x
1	1:50	38.7	x
1	1:55	38.1	
1	2:00	38	
1	2:05	38	
1	2:10	37.6	
1	2:15	37.3	
1	2:20	36.5	
1	2:25	36.2	
1	2:30	35.9	
1	2:35	36.5	
1	2:40	37	
1	2:45	37.2	
1	2:50	38.3	
1	2:55	38.3	
1	3:00	38.1	
1	3:05	37	
1	3:10	36.9	
1	3:15	38	
1	3:20	39	
1	3:25	38.9	
1	3:30	39	
1	3:35	41	x
1	3:40	51	x

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:13 pm			
Run #	mm:ss	dB(A)	
2	5	38.1	
2	10	36.5	
2	15	37.2	
2	20	37.4	
2	25	37.1	
2	30	37.6	
2	35	39.8	Lmax
2	40	38.6	
2	45	39.6	
2	50	39.1	x
2	55	40.2	x
2	60	40.4	x
2	1:05	42.3	x
2	1:10	42.9	x
2	1:15	39.3	x
2	1:20	37.9	
2	1:25	38.1	
2	1:30	37.2	
2	1:35	36.7	
2	1:40	37.5	
2	1:45	39.1	x
2	1:50	52.8	x
2	1:55	47.7	x
2	2:00	41	x
2	2:05	40.4	x
2	2:10	40.9	x
2	2:15	39.6	x
2	2:20	38	
2	2:25	39.7	
2	2:30	37.2	
2	2:35	40.8	x
2	2:40	38.7	x
2	2:45	38.6	x
2	2:50	42	x
2	2:55	40.3	x
2	3:00	38.4	
2	3:05	36.6	
2	3:10	37.2	
2	3:15	40.8	x
2	3:20	48.1	x
2	3:25	50.3	x
2	3:30	43.5	x
2	3:35	38.5	
2	3:40	39	

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:28 pm			
Run #	mm:ss	dB(A)	
3	5	37.2	
3	10	35.1	
3	15	35.2	
3	20	36.6	
3	25	37.8	x
3	30	38.3	x
3	35	38.4	x
3	40	34.9	
3	45	34.4	
3	50	34.8	
3	55	35.5	
3	60	36.2	
3	1:05	35.7	
3	1:10	35.1	
3	1:15	36.3	
3	1:20	35.7	
3	1:25	35.9	
3	1:30	37.5	
3	1:35	36.9	
3	1:40	36.8	
3	1:45	36.1	
3	1:50	36.3	
3	1:55	36.5	
3	2:00	35.6	
3	2:05	37.9	
3	2:10	39.5	x
3	2:15	40.1	x
3	2:20	38.5	x
3	2:25	39.8	x
3	2:30	40.3	x
3	2:35	49.1	x
3	2:40	60.5	x
3	2:45	52.2	x
3	2:50	43.1	x
3	2:55	39.9	x
3	3:00	41.7	x
3	3:05	42.3	x
3	3:10	43.3	x
3	3:15	39.8	x
3	3:20	39.3	x
3	3:25	40.4	x
3	3:30	39.3	
3	3:35	40	Lmax
3	3:40	39.5	

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:34 pm			
Run #	mm:ss	dB(A)	
4	5	41.3	x
4	10	39.7	x
4	15	39.7	x
4	20	42.1	x
4	25	46.8	x
4	30	51.1	x
4	35	57.1	x
4	40	64.8	x
4	45	67.7	x
4	50	62.3	x
4	55	58.8	x
4	60	53.1	x
4	1:05	51.2	x
4	1:10	47.5	x
4	1:15	45.8	x
4	1:20	44.6	x
4	1:25	42.4	x
4	1:30	41	x
4	1:35	39.7	
4	1:40	38.5	
4	1:45	38.9	
4	1:50	38.7	
4	1:55	39.2	x
4	2:00	40.1	x
4	2:05	40.3	x
4	2:10	40.5	x
4	2:15	41.5	x
4	2:20	40.2	x
4	2:25	40.5	x
4	2:30	39	x
4	2:35	40.2	x
4	2:40	39.9	x
4	2:45	40.7	x
4	2:50	40.8	x
4	2:55	39	
4	3:00	39.6	
4	3:05	39.3	
4	3:10	38.4	
4	3:15	37.6	
4	3:20	37.8	
4	3:25	38.6	
4	3:30	38.9	
4	3:35	38.9	
4	3:40	39.8	x

Broadband Impact Analysis

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:07 pm			
Run #	mm:ss	dB(A)	
1	3:45	53.1	x
1	3:50	45.6	x
1	3:55	40.7	x
1	4:00	39.2	
1	4:05	39.1	
1	4:10	42.9	x
1	4:15	42.7	x
1	4:20	50.1	x
1	4:25	48.7	x
1	4:30	46	x
1	4:35	42.1	x
1	4:40	38.8	
1	4:45	39.2	
1	4:50	38.3	
1	4:55	38.7	
1	5:00	37.3	

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:13 pm			
Run #	mm:ss	dB(A)	
2	3:45	39.7	
2	3:50	39.3	
2	3:55	37.7	
2	4:00	37.5	
2	4:05	39.2	
2	4:10	37.3	
2	4:15	37	
2	4:20	37.8	
2	4:25	38.7	
2	4:30	38	
2	4:35	36.9	
2	4:40	37.3	
2	4:45	38	
2	4:50	38.5	x
2	4:55	39.7	x
2	5:00	41	x

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:28 pm			
Run #	mm:ss	dB(A)	
3	3:45	39	
3	3:50	40	
3	3:55	38.7	
3	4:00	39	
3	4:05	46.1	x
3	4:10	50.9	x
3	4:15	42.4	x
3	4:20	39.9	x
3	4:25	39.9	x
3	4:30	38.3	
3	4:35	38	
3	4:40	38.7	
3	4:45	38.3	
3	4:50	38.7	x
3	4:55	40.2	x
3	5:00	39	x

161 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 2:34 pm			
Run #	mm:ss	dB(A)	
4	3:45	39.8	x
4	3:50	40.5	x
4	3:55	42.3	x
4	4:00	44.6	x
4	4:05	44.8	x
4	4:10	40.5	x
4	4:15	39	x
4	4:20	45.9	x
4	4:25	44.7	x
4	4:30	39.9	Lmax
4	4:35	38	
4	4:40	38.9	
4	4:45	36.8	
4	4:50	36.3	
4	4:55	38	
4	5:00	39.4	

Lmax (Avg)	39.9	dBA

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	60.1	dBA
Leq	44.8	dBA
L01	55.8	dBA
L10	47.1	dBA
L50	39.2	dBA
L90	37	dBA
LC-A	12.9	dBA

Lmax	53	dBA
Leq	41.9	dBA
L01	52.2	dBA
L10	43.2	dBA
L50	38.7	dBA
L90	37.1	dBA
LC-A	12.7	dBA

Lmax	60.6	dBA
Leq	44.8	dBA
L01	59.6	dBA
L10	43	dBA
L50	38.7	dBA
L90	35.1	dBA
LC-A	11.2	dBA

Lmax	68.8	dBA
Leq	54.2	dBA
L01	67.7	dBA
L10	52.5	dBA
L50	40.3	dBA
L90	38	dBA
LC-A	10.2	dBA

Met Data		
WS at Ground	calm	m/s
WS at Hub	3.3	m/s
WS at CGAS	4.1	m/s
WD at Hub	60	degrees
WD at CGAS	50	degrees
BP	29.75	in
Humidity	50	%
Temp	77	degr F

Broadband Impact Analysis

27 Ridgeview			
Date: 31 May 12			
Time: 3:04 pm			
Run #	mm:ss	dB(A)	
1	5	44.6	
1	10	47.2	
1	15	47.4	
1	20	47.8	
1	25	48.7	
1	30	52.9	
1	35	54.2	
1	40	50.8	
1	45	47.6	
1	50	50.6	
1	55	54.6	Lmax
1	60	49.8	
1	1:05	51.6	
1	1:10	52.6	
1	1:15	52.8	
1	1:20	53.3	x
1	1:25	52.4	x
1	1:30	56.5	x
1	1:35	56.1	x
1	1:40	52.4	x
1	1:45	52	
1	1:50	53.2	
1	1:55	50.3	
1	2:00	48.8	
1	2:05	52	
1	2:10	50.2	
1	2:15	50.6	
1	2:20	50.4	
1	2:25	52.2	
1	2:30	52.1	
1	2:35	51.8	x
1	2:40	56	x
1	2:45	55.9	x
1	2:50	54.5	x
1	2:55	51.7	x
1	3:00	54.7	x
1	3:05	52.5	x
1	3:10	50.1	
1	3:15	53.8	
1	3:20	52.9	
1	3:25	53.3	
1	3:30	49.5	
1	3:35	48.6	
1	3:40	49.1	
1	3:45	54.1	x
1	3:50	55.1	x
1	3:55	54.3	x
1	4:00	53.7	x
1	4:05	53.3	x
1	4:10	46.1	
1	4:15	49.1	
1	4:20	50.9	

27 Ridgeview			
Date: 31 May 12			
Time: 3:25 pm			
Run #	mm:ss	dB(A)	
2	5	51.7	
2	10	52.6	
2	15	53.6	
2	20	53.5	
2	25	52.9	
2	30	52.7	
2	35	52	
2	40	53.2	
2	45	52.9	
2	50	49.9	
2	55	54.6	x
2	60	57.4	x
2	1:05	52.8	x
2	1:10	51.9	x
2	1:15	51.9	
2	1:20	50.3	
2	1:25	48.2	
2	1:30	47.2	
2	1:35	50	
2	1:40	51.2	
2	1:45	51.1	
2	1:50	49.4	
2	1:55	51.3	
2	2:00	52	
2	2:05	53.9	Lmax
2	2:10	53.2	
2	2:15	52.7	
2	2:20	50	
2	2:25	49.7	
2	2:30	48.1	
2	2:35	50.8	
2	2:40	50.3	
2	2:45	49.1	
2	2:50	52.7	x
2	2:55	55.3	x
2	3:00	54.9	x
2	3:05	54.9	x
2	3:10	54	x
2	3:15	50.6	x
2	3:20	49.6	
2	3:25	52	
2	3:30	52	
2	3:35	47.9	
2	3:40	52.5	x
2	3:45	54.1	x
2	3:50	54.5	x
2	3:55	54.3	x
2	4:00	54.1	x
2	4:05	51.6	
2	4:10	48.5	
2	4:15	48.9	
2	4:20	49.6	

27 Ridgeview			
Date: 31 May 12			
Time: 3:32 pm			
Run #	mm:ss	dB(A)	
3	5	51	
3	10	50.6	
3	15	48.6	
3	20	49	
3	25	50.5	
3	30	55.4	x
3	35	59.3	x
3	40	49.9	x
3	45	47.9	x
3	50	55.2	x
3	55	58.2	x
3	60	53.1	x
3	1:05	51.6	
3	1:10	49.3	
3	1:15	49	
3	1:20	46.7	
3	1:25	45.7	
3	1:30	49.5	
3	1:35	48	
3	1:40	46.4	
3	1:45	47.5	
3	1:50	47.3	
3	1:55	55	x
3	2:00	53.2	x
3	2:05	51.5	x
3	2:10	53.3	x
3	2:15	53.3	x
3	2:20	50.4	
3	2:25	49.6	x
3	2:30	55.5	x
3	2:35	45.5	x
3	2:40	50.1	
3	2:45	46.8	
3	2:50	48.4	
3	2:55	52.5	x
3	3:00	59.4	x
3	3:05	61	x
3	3:10	59.8	x
3	3:15	56.8	x
3	3:20	54.4	x
3	3:25	52.5	
3	3:30	49.2	
3	3:35	49.7	
3	3:40	51.9	
3	3:45	52.2	
3	3:50	54.3	Lmax
3	3:55	54.3	
3	4:00	53.4	
3	4:05	53.7	x
3	4:10	55	x
3	4:15	53.2	x
3	4:20	50.1	

Broadband Impact Analysis

1	4:25	51.8	
1	4:30	48.1	x
1	4:35	54.9	x
1	4:40	50.7	x
1	4:45	47.3	
1	4:50	48.9	
1	4:55	51.3	
1	5:00	52.6	

2	4:25	46.6	
2	4:30	46.1	
2	4:35	51.3	x
2	4:40	54.6	x
2	4:45	53.8	x
2	4:50	54.6	x
2	4:55	54	x
2	5:00	52.5	x

3	4:25	48.1
3	4:30	46.2
3	4:35	49.3
3	4:40	50.9
3	4:45	47.2
3	4:50	52.1
3	4:55	53.4
3	5:00	53.2

Lmax (Avg)	**54.3**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	57.8	dBA
Leq	52.3	dBA
L01	56.9	dBA
L10	54.6	dBA
L50	51.8	dBA
L90	47.7	dBA
LC-A	8.9	dBA

Lmax	57.5	dBA
Leq	52.4	dBA
L01	56.2	dBA
L10	54.5	dBA
L50	51.9	dBA
L90	48.4	dBA
LC-A	8.7	dBA

Lmax	61.6	dBA
Leq	52.8	dBA
L01	60.9	dBA
L10	55.2	dBA
L50	51.4	dBA
L90	47.1	dBA
LC-A	12.3	dBA

Met Data		
WS at Ground	calm	m/s
WS at Hub	2.7	m/s
WS at CGAS	3.6	m/s
WD at Hub	55	degrees
WD at CGAS	40	degrees
BP	29.75	in
Humidity	46.4	%
Temp	75.2	degr F

Broadband Ambient Analysis (Background)

27 Ridgeview Rd			
Date: 31 May 12			
Time: 3:41 pm			
Run #	mm:ss	dB(A)	
1	5	52.9	
1	10	55.6	
1	15	53.6	
1	20	50.1	
1	25	50.3	
1	30	54.5	
1	35	54.2	
1	40	55	
1	45	52.2	
1	50	53	
1	55	53.2	
1	60	50.4	
1	1:05	50.1	L90
1	1:10	49.1	
1	1:15	47.7	
1	1:20	44	
1	1:25	46.7	
1	1:30	51	
1	1:35	53	
1	1:40	53.2	
1	1:45	54.4	
1	1:50	54.7	
1	1:55	53.1	
1	2:00	53.7	
1	2:05	53.9	
1	2:10	52.8	
1	2:15	49.1	
1	2:20	45	
1	2:25	50.6	
1	2:30	55.2	
1	2:35	53.7	
1	2:40	53.5	
1	2:45	56.3	
1	2:50	57.1	
1	2:55	54.9	
1	3:00	55.6	
1	3:05	54.5	
1	3:10	52.6	
1	3:15	50.6	
1	3:20	50.9	
1	3:25	54	
1	3:30	52.5	
1	3:35	51.5	
1	3:40	53.2	
1	3:45	52.9	
1	3:50	52.9	
1	3:55	52.8	
1	4:00	50	
1	4:05	50.9	
1	4:10	52.4	
1	4:15	54.6	

27 Ridgeview Rd			
Date: 31 May 12			
Time: 3:47 pm			
Run #	mm:ss	dB(A)	
2	5	53.9	
2	10	54.9	
2	15	54.5	
2	20	53.1	
2	25	51.7	
2	30	54.9	
2	35	56.1	
2	40	52.6	
2	45	52.3	
2	50	56	
2	55	56.4	
2	60	55	
2	1:05	53.7	
2	1:10	54.7	
2	1:15	54.1	
2	1:20	52.3	
2	1:25	51.3	
2	1:30	51.6	
2	1:35	51.8	
2	1:40	53.5	
2	1:45	53.3	
2	1:50	52.9	
2	1:55	52.5	
2	2:00	52.3	
2	2:05	54.6	
2	2:10	53.5	
2	2:15	53.3	
2	2:20	52.4	
2	2:25	51.8	
2	2:30	53	
2	2:35	52.8	
2	2:40	51.7	
2	2:45	52.2	
2	2:50	50.8	
2	2:55	50.9	
2	3:00	55.1	
2	3:05	57	
2	3:10	54.6	
2	3:15	53.8	
2	3:20	52.2	
2	3:25	47.3	
2	3:30	52	
2	3:35	54.5	
2	3:40	55.9	
2	3:45	51.1	
2	3:50	51.2	
2	3:55	51.9	
2	4:00	51.8	
2	4:05	50.7	
2	4:10	51.2	
2	4:15	55	x

27 Ridgeview Rd			
Date: 31 May 12			
Time: 3:53 pm			
Run #	mm:ss	dB(A)	
3	5	54.9	
3	10	53.4	
3	15	52.7	
3	20	53.2	
3	25	54	
3	30	52.7	
3	35	53.7	
3	40	52.1	
3	45	55.8	
3	50	55.2	
3	55	53.1	
3	60	52.3	
3	1:05	52.1	
3	1:10	52.5	
3	1:15	53	
3	1:20	53.5	
3	1:25	55.9	
3	1:30	56.4	
3	1:35	53.2	
3	1:40	49.3	
3	1:45	52.4	
3	1:50	51.7	
3	1:55	54.3	
3	2:00	57.2	
3	2:05	56.3	
3	2:10	52.6	
3	2:15	49.6	
3	2:20	49.8	
3	2:25	54.7	
3	2:30	54.1	
3	2:35	53.9	
3	2:40	54.3	
3	2:45	51.6	
3	2:50	52.1	
3	2:55	51.1	
3	3:00	53.7	
3	3:05	56.1	
3	3:10	55.8	
3	3:15	53.6	
3	3:20	54.4	
3	3:25	53.4	
3	3:30	52.7	
3	3:35	55.1	x
3	3:40	53.8	
3	3:45	52.6	
3	3:50	53.7	
3	3:55	54.4	
3	4:00	53.1	
3	4:05	52.7	
3	4:10	56.2	x
3	4:15	57.2	x

Broadband Ambient Analysis (Background)

27 Ridgeview Rd		
Date: 31 May 12		
Time: 3:41 pm		
Run #	mm:ss	dB(A)
1	4:20	56.5
1	4:25	54
1	4:30	53
1	4:35	55.5
1	4:40	53
1	4:45	51.8
1	4:50	47.4
1	4:55	42.5
1	5:00	40.9

27 Ridgeview Rd			
Date: 31 May 12			
Time: 3:47 pm			
Run #	mm:ss	dB(A)	
2	4:20	59	x
2	4:25	55.9	x
2	4:30	52.4	
2	4:35	51.4	
2	4:40	49	
2	4:45	49.9	
2	4:50	49.9	
2	4:55	53	
2	5:00	52.5	

27 Ridgeview Rd			
Date: 31 May 12			
Time: 3:53 pm			
Run #	mm:ss	dB(A)	
3	4:20	55.9	x
3	4:25	54.5	
3	4:30	54.5	
3	4:35	54.7	
3	4:40	54.7	
3	4:45	54.1	
3	4:50	56.8	x
3	4:55	54.8	
3	5:00	53.1	

L90	50.1

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	58.6	dBA
Leq	53	dBA
L01	57.9	dBA
L10	55.1	dBA
L50	52.9	dBA
L90	47.4	dBA
LC-A	9.6	dBA

Lmax	59.6	dBA
Leq	53.7	dBA
L01	58.9	dBA
L10	56	dBA
L50	52.8	dBA
L90	50.7	dBA
LC-A	8.8	dBA

Lmax	57.5	dBA
Leq	54.1	dBA
L01	57.1	dBA
L10	56	dBA
L50	53.7	dBA
L90	51.8	dBA
LC-A	8	dBA

Met Data		
WS at Ground	calm	m/s
WS at Hub	2.7	m/s
WS at CGAS	4.6	m/s
WD at Hub	55	degrees
WD at CGAS	40	degrees
BP	29.76	in
Humidity	50	%
Temp	75.2	degr F

Broadband Ambient Analysis (Background)

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 4:25 pm			
Run #	mm:ss	dB(A)	
1	5	37.3	
1	10	35.7	
1	15	36.1	
1	20	34.9	
1	25	35.5	
1	30	35.8	
1	35	35.7	
1	40	35.9	
1	45	36.5	
1	50	35.9	
1	55	36	
1	60	34.8	
1	1:05	34.7	
1	1:10	34.6	
1	1:15	33.9	
1	1:20	33.4	
1	1:25	33.7	
1	1:30	33.9	
1	1:35	33.8	
1	1:40	34.3	
1	1:45	35.7	
1	1:50	34.1	
1	1:55	33.3	
1	2:00	33.3	
1	2:05	33.3	
1	2:10	32.4	
1	2:15	32.8	
1	2:20	36.1	x
1	2:25	46.2	x
1	2:30	40.4	x
1	2:35	38.1	x
1	2:40	47.1	x
1	2:45	48.1	x
1	2:50	45.2	x
1	2:55	34.3	
1	3:00	33.3	
1	3:05	33.5	
1	3:10	33.6	
1	3:15	33.4	
1	3:20	33.2	
1	3:25	35.1	
1	3:30	33.8	
1	3:35	33.3	
1	3:40	32.9	
1	3:45	33.6	
1	3:50	32.9	
1	3:55	32.5	
1	4:00	33.3	
1	4:05	34.7	
1	4:10	48	x
1	4:15	43.3	x

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 4:31 pm			
Run #	mm:ss	dB(A)	
2	5	36.3	
2	10	37.7	
2	15	35.3	
2	20	36.9	
2	25	40.8	x
2	30	45.6	x
2	35	37.7	x
2	40	34.9	
2	45	36	
2	50	35.5	
2	55	39.7	x
2	60	47.4	x
2	1:05	43.2	x
2	1:10	37.3	
2	1:15	36.3	
2	1:20	36.6	
2	1:25	36.4	
2	1:30	34.6	
2	1:35	34.6	
2	1:40	33.8	
2	1:45	41.8	x
2	1:50	34.6	
2	1:55	34.7	
2	2:00	34.6	
2	2:05	34.7	
2	2:10	33.9	
2	2:15	32.9	
2	2:20	33.8	
2	2:25	34	
2	2:30	32.6	
2	2:35	32.8	
2	2:40	35.6	
2	2:45	34.4	
2	2:50	42.8	x
2	2:55	39.4	
2	3:00	34.5	
2	3:05	34.3	
2	3:10	33.5	
2	3:15	35.1	
2	3:20	38	x
2	3:25	44.3	x
2	3:30	46.1	x
2	3:35	38.1	x
2	3:40	36.7	
2	3:45	36.2	
2	3:50	35	
2	3:55	33	
2	4:00	32.2	
2	4:05	33.2	
2	4:10	33	
2	4:15	40	x

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 4:38 pm			
Run #	mm:ss	dB(A)	
3	5	37.4	
3	10	33.1	
3	15	34.9	
3	20	33	
3	25	34.1	
3	30	33.9	
3	35	32.5	
3	40	36.8	
3	45	31.7	
3	50	32	
3	55	32.3	
3	60	32.3	
3	1:05	32.1	
3	1:10	32.6	
3	1:15	32.4	L90
3	1:20	31.8	
3	1:25	37.7	x
3	1:30	32.3	
3	1:35	32.8	
3	1:40	31.7	
3	1:45	32.5	
3	1:50	31.9	
3	1:55	30.5	
3	2:00	39.5	x
3	2:05	31.8	
3	2:10	32.1	
3	2:15	36.6	x
3	2:20	33.9	
3	2:25	36.6	x
3	2:30	38.2	x
3	2:35	47.2	x
3	2:40	44.9	x
3	2:45	38.5	x
3	2:50	44.7	x
3	2:55	48.7	x
3	3:00	39.9	x
3	3:05	35.5	
3	3:10	32.6	
3	3:15	33.3	
3	3:20	35.8	x
3	3:25	42.6	x
3	3:30	48	x
3	3:35	38.3	x
3	3:40	34.6	
3	3:45	35.8	
3	3:50	34.8	
3	3:55	33.7	
3	4:00	33.4	
3	4:05	33.4	
3	4:10	33.5	
3	4:15	33.3	

Broadband Ambient Analysis (Background)

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 4:25 pm			
Run #	mm:ss	dB(A)	
1	4:20	38.6	x
1	4:25	48.2	x
1	4:30	41.2	x
1	4:35	35.4	
1	4:40	34.7	
1	4:45	37.4	
1	4:50	42.1	x
1	4:55	35.7	
1	5:00	33.7	

211 Blacksmith Shop Rd			
Date: 31 May 12			
Time: 4:31 pm			
Run #	mm:ss	dB(A)	
2	4:20	33.6	
2	4:25	33.4	
2	4:30	40.9	x
2	4:35	53	x
2	4:40	44.2	x
2	4:45	38.2	
2	4:50	33.8	
2	4:55	31.8	
2	5:00	33.1	

211 Blacksmith Shop Rd		
Date: 31 May 12		
Time: 4:38 pm		
Run #	mm:ss	dB(A)
3	4:20	33.1
3	4:25	33.2
3	4:30	33.5
3	4:35	32.3
3	4:40	33.7
3	4:45	32
3	4:50	31.7
3	4:55	33.3
3	5:00	34.1

L90	32.4

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	55.1	dBA
Leq	39.8	dBA
L01	49.6	dBA
L10	43.2	dBA
L50	34.7	dBA
L90	33.1	dBA
LC-A	9.7	dBA

Lmax	53.8	dBA
Leq	40.3	dBA
L01	51.8	dBA
L10	43.8	dBA
L50	35.1	dBA
L90	33	dBA
LC-A	11.5	dBA

Lmax	49.2	dBA
Leq	38.6	dBA
L01	78.5	dBA
L10	42	dBA
L50	33.4	dBA
L90	31.9	dBA
LC-A	11.9	dBA

Met Data		
WS at Ground	calm	m/s
WS at Hub	<1	m/s
WS at CGAS	2.6	m/s
WD at Hub	20	degrees
WD at CGAS	30	degrees
BP	29.76	in
Humidity	50	%
Temp	75.2	degr F

Broadband Impact Analysis

211 Blacksmith Shop Rd			
Date: 5 June 12			
Time: 12:03 pm			
Run #	mm:ss	dB(A)	
1	5	42.1	
1	10	42.5	
1	15	41.8	
1	20	43.4	
1	25	43.7	
1	30	44.1	
1	35	43.6	
1	40	42.5	
1	45	42.8	
1	50	42.8	
1	55	42.7	
1	60	43.7	
1	1:05	43.9	
1	1:10	42.8	
1	1:15	43	
1	1:20	42.8	
1	1:25	41.7	
1	1:30	42.5	
1	1:35	43.4	
1	1:40	42.4	
1	1:45	42.9	
1	1:50	42	
1	1:55	42.2	
1	2:00	43.4	
1	2:05	42.1	
1	2:10	42.9	
1	2:15	43.3	
1	2:20	43.1	
1	2:25	42.5	
1	2:30	42.5	
1	2:35	42.6	
1	2:40	44.2	
1	2:45	47.8	x
1	2:50	47.1	x
1	2:55	42.9	
1	3:00	42.8	
1	3:05	45.6	x
1	3:10	43.2	
1	3:15	42.4	
1	3:20	42.8	
1	3:25	43.6	
1	3:30	42.3	
1	3:35	44.4	
1	3:40	44.9	Lmax
1	3:45	43.9	
1	3:50	42.7	
1	3:55	43.1	
1	4:00	41.9	
1	4:05	42.3	
1	4:10	42.2	
1	4:15	42	

211 Blacksmith Shop Rd			
Date: 5 June 12			
Time: 12:09 pm			
Run #	mm:ss	dB(A)	
2	5	42	
2	10	44.3	
2	15	43.1	
2	20	44.7	
2	25	45.6	Lmax
2	30	43.2	
2	35	42.4	
2	40	42.1	
2	45	42.2	
2	50	42.8	
2	55	42.1	
2	60	41.9	
2	1:05	42.6	
2	1:10	43.4	
2	1:15	44.1	
2	1:20	43.4	
2	1:25	43.2	
2	1:30	43.6	
2	1:35	43.5	
2	1:40	43.2	
2	1:45	43.5	
2	1:50	43.8	
2	1:55	42.8	
2	2:00	42.8	
2	2:05	41.8	
2	2:10	42.4	
2	2:15	44.3	
2	2:20	43.3	
2	2:25	43.2	
2	2:30	43	
2	2:35	43.5	
2	2:40	43.3	
2	2:45	42.5	
2	2:50	43.4	
2	2:55	42.9	
2	3:00	43.7	
2	3:05	42.7	
2	3:10	41.8	
2	3:15	41.6	
2	3:20	41.5	
2	3:25	44.3	
2	3:30	42.1	
2	3:35	42.6	x
2	3:40	43.1	
2	3:45	43.7	
2	3:50	43.8	
2	3:55	44.1	
2	4:00	44.3	
2	4:05	46.3	x
2	4:10	56	x
2	4:15	57.2	x

211 Blacksmith Shop Rd			
Date: 5 June 12			
Time: 12:16 pm			
Run #	mm:ss	dB(A)	
3	5	44.9	
3	10	47.6	x
3	15	47	x
3	20	46.4	x
3	25	45	
3	30	43	
3	35	44.9	
3	40	46.2	x
3	45	47.2	x
3	50	52.7	x
3	55	48.8	x
3	60	45.4	x
3	1:05	44	
3	1:10	43.9	
3	1:15	42.4	
3	1:20	42.6	
3	1:25	42.6	
3	1:30	42.5	
3	1:35	43.3	
3	1:40	43.4	
3	1:45	43.6	
3	1:50	43	
3	1:55	43.5	
3	2:00	43.3	
3	2:05	42.7	
3	2:10	43.4	
3	2:15	43.4	
3	2:20	44	
3	2:25	44.5	
3	2:30	46.2	x
3	2:35	46.2	x
3	2:40	44.4	
3	2:45	43.6	
3	2:50	43.1	
3	2:55	43.2	
3	3:00	43.1	
3	3:05	43.1	
3	3:10	42.8	
3	3:15	43.1	
3	3:20	43.9	
3	3:25	46	x
3	3:30	43.6	
3	3:35	42.8	
3	3:40	43.1	
3	3:45	51	x
3	3:50	46.9	x
3	3:55	41.5	
3	4:00	40.8	
3	4:05	42.5	
3	4:10	44.2	
3	4:15	44.7	

Broadband Impact Analysis

1	4:20	44.1	
1	4:25	44.2	
1	4:30	47.8	x
1	4:35	43.6	
1	4:40	43.6	
1	4:45	43.4	
1	4:50	43.1	
1	4:55	43.7	
1	5:00	41.6	

2	4:20	52.9	x
2	4:25	54.3	x
2	4:30	51.6	x
2	4:35	50.1	x
2	4:40	48.3	x
2	4:45	49.7	x
2	4:50	49.6	x
2	4:55	48.2	x
2	5:00	51.8	x

3	4:20	45.7	Lmax
3	4:25	45.1	
3	4:30	44.1	
3	4:35	43.4	
3	4:40	43	
3	4:45	43	
3	4:50	43.9	
3	4:55	44.9	x
3	5:00	46.6	x

Lmax (Avg)	**45.4**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	54.6	dBA
Leq	44	dBA
L01	52	dBA
L10	44.6	dBA
L50	42.9	dBA
L90	42	dBA
LC-A	12.4	dBA

Lmax	59.3	dBA
Leq	47.4	dBA
L01	58.7	dBA
L10	51	dBA
L50	43.3	dBA
L90	41.9	dBA
LC-A	11.2	dBA

Lmax	53.1	dBA
Leq	45.2	dBA
L01	52.3	dBA
L10	46.7	dBA
L50	43.7	dBA
L90	42.5	dBA
LC-A	10.5	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	8.2	m/s
WS at CGAS	4.6	m/s
WD at Hub	12	degrees
WD at CGAS	30	degrees
BP	29.86	in
Humidity	48.2	%
Temp	50	degr F

Broadband Impact Analysis

161 Blacksmith Shop Rd			
Date: 5 June 12			
Time: 11:30 am			
Run #	mm:ss	dB(A)	
1	5	44	
1	10	43.7	
1	15	43.1	
1	20	44.4	
1	25	45.4	
1	30	44.6	
1	35	46.1	Lmax
1	40	45.4	
1	45	46.2	x
1	50	45.6	x
1	55	47.2	x
1	60	46.9	x
1	1:05	46.7	x
1	1:10	45.6	
1	1:15	44.6	
1	1:20	44.2	
1	1:25	44.2	
1	1:30	44.3	
1	1:35	44.8	
1	1:40	45.2	
1	1:45	45.3	
1	1:50	44.2	
1	1:55	43.7	
1	2:00	44.8	
1	2:05	46.9	x
1	2:10	46.8	x
1	2:15	46.6	x
1	2:20	46	x
1	2:25	46.4	x
1	2:30	45	
1	2:35	44.1	
1	2:40	47	x
1	2:45	48.4	x
1	2:50	50.7	x
1	2:55	53	x
1	3:00	47.2	x
1	3:05	48.5	x
1	3:10	52.8	x
1	3:15	48.8	x
1	3:20	46.3	x
1	3:25	44.7	
1	3:30	44.8	
1	3:35	45.2	
1	3:40	45.5	
1	3:45	44.2	
1	3:50	46.3	x
1	3:55	48	x
1	4:00	49.5	x
1	4:05	49.5	x
1	4:10	48.3	x
1	4:15	49.3	x

161 Blacksmith Shop Rd			
Date: 5 June 12			
Time: 11: 38 am			
Run #	mm:ss	dB(A)	
2	5	44.2	
2	10	44.2	
2	15	44	
2	20	44.2	
2	25	44.6	x
2	30	46.9	x
2	35	45.5	x
2	40	44	
2	45	44.6	
2	50	46.3	x
2	55	47.5	x
2	60	49.3	x
2	1:05	46.7	x
2	1:10	48	x
2	1:15	46.9	x
2	1:20	48.4	x
2	1:25	46.3	
2	1:30	46.5	
2	1:35	46.5	
2	1:40	46.4	
2	1:45	46	
2	1:50	46.3	
2	1:55	46.5	
2	2:00	47.8	x
2	2:05	49.1	x
2	2:10	53.1	x
2	2:15	54.7	x
2	2:20	52.6	x
2	2:25	50	x
2	2:30	49.6	x
2	2:35	49.4	x
2	2:40	49.7	x
2	2:45	49.6	x
2	2:50	49.4	x
2	2:55	48	x
2	3:00	47.5	x
2	3:05	47.3	x
2	3:10	46.8	x
2	3:15	49.2	x
2	3:20	49.5	x
2	3:25	48.7	x
2	3:30	50.1	x
2	3:35	55.8	x
2	3:40	53.1	x
2	3:45	55.8	x
2	3:50	49.6	x
2	3:55	48.5	x
2	4:00	47.1	x
2	4:05	47.2	x
2	4:10	46.6	
2	4:15	46.9	

161 Blacksmith Shop Rd			
Date: 5 June 12			
Time: 11:45 am			
Run #	mm:ss	dB(A)	
3	5	45.8	
3	10	45.3	
3	15	45.7	
3	20	46.7	x
3	25	48.4	x
3	30	48.5	x
3	35	49.4	x
3	40	49.6	x
3	45	51	x
3	50	51.9	x
3	55	54	x
3	60	52	x
3	1:05	53.2	x
3	1:10	49.3	x
3	1:15	47.5	x
3	1:20	46.8	x
3	1:25	45.9	
3	1:30	46	
3	1:35	45.9	
3	1:40	45.9	
3	1:45	45.9	
3	1:50	46.5	x
3	1:55	46.8	x
3	2:00	49.3	x
3	2:05	50.3	x
3	2:10	49.1	x
3	2:15	47.1	x
3	2:20	47.9	x
3	2:25	48	x
3	2:30	50.2	x
3	2:35	52.5	x
3	2:40	49.9	x
3	2:45	51	x
3	2:50	51.8	x
3	2:55	50.9	x
3	3:00	49.3	x
3	3:05	46.2	x
3	3:10	48.2	x
3	3:15	48.1	x
3	3:20	45.3	
3	3:25	46.1	
3	3:30	44.8	
3	3:35	46.2	
3	3:40	49.2	x
3	3:45	54	x
3	3:50	46.5	
3	3:55	43.8	
3	4:00	44.7	
3	4:05	44.3	
3	4:10	44.8	
3	4:15	44.5	

Broadband Impact Analysis

1	4:20	51	x
1	4:25	53.6	x
1	4:30	52.4	x
1	4:35	51.3	x
1	4:40	49.7	x
1	4:45	47.3	x
1	4:50	47.2	x
1	4:55	47.8	x
1	5:00	46.5	x

2	4:20	46	
2	4:25	45.8	
2	4:30	45.6	
2	4:35	45.4	
2	4:40	46.1	
2	4:45	46.9	Lmax
2	4:50	46	
2	4:55	44.5	
2	5:00	46.2	

3	4:20	46.9	
3	4:25	45.6	
3	4:30	46.1	
3	4:35	46.5	x
3	4:40	48.6	x
3	4:45	47.4	x
3	4:50	47.5	x
3	4:55	46.8	
3	5:00	47.1	Lmax

Lmax (Avg) 46.7 dBA

Sampler Summary Data (Does NOT Exclude interference sound)

Lmax	55	dBA
Leq	47.6	dBA
L01	53.9	dBA
L10	50.4	dBA
L50	46.1	dBA
L90	43.9	dBA
LC-A	15.3	dBA

Lmax	56.1	dBA
Leq	48.7	dBA
L01	55.5	dBA
L10	51.4	dBA
L50	46.9	dBA
L90	44.6	dBA
LC-A	10.2	dBA

Lmax	56.3	dBA
Leq	48.8	dBA
L01	54.5	dBA
L10	51.4	dBA
L50	47.4	dBA
L90	45.1	dBA
LC-A	9.8	dBA

Met Data

WS at Ground	< 1	m/s
WS at Hub	7.7	m/s
WS at CGAS	3.6	m/s
WD at Hub	10	degrees
WD at CGAS	30	degrees
BP	29.86	in
Humidity	46.4	%
Temp	50	degr F

Broadband Impact Analysis

27 Ridgeview Rd.			
Date: 5 June 2012			
Time: 10:49 am			
Run #	mm:ss	dB(A)	
1	5	57.2	x
1	10	60.5	x
1	15	57.2	x
1	20	55.7	
1	25	55.7	
1	30	56.3	
1	35	57.1	x
1	40	57.1	x
1	45	57	x
1	50	58.8	x
1	55	56.3	
1	60	56.7	
1	1:05	56.7	
1	1:10	57	x
1	1:15	57.8	x
1	1:20	59.8	x
1	1:25	58.1	x
1	1:30	57.5	x
1	1:35	56.5	x
1	1:40	56	x
1	1:45	57.9	x
1	1:50	55.5	
1	1:55	54.3	
1	2:00	53.5	
1	2:05	54.6	
1	2:10	55.8	
1	2:15	56.8	
1	2:20	53.7	
1	2:25	55	x
1	2:30	57.6	x
1	2:35	57.2	x
1	2:40	55.5	x
1	2:45	54.6	
1	2:50	55	
1	2:55	55.5	x
1	3:00	57.2	x
1	3:05	56.5	x
1	3:10	57.8	x
1	3:15	56.7	x
1	3:20	56.6	x
1	3:25	56.2	x
1	3:30	55.5	
1	3:35	56.5	
1	3:40	56.3	
1	3:45	56.9	Lmax
1	3:50	56.6	
1	3:55	55.5	
1	4:00	53.2	
1	4:05	53.7	
1	4:10	55.8	
1	4:15	57.9	x
1	4:20	58.8	x

27 Ridgeview Rd.			
Date: 5 June 2012			
Time: 10:59 am			
Run #	mm:ss	dB(A)	
2	5	52.5	
2	10	55.8	
2	15	56.3	x
2	20	53.9	
2	25	54.8	
2	30	56.6	x
2	35	57.3	x
2	40	60.2	x
2	45	58.7	x
2	50	57.4	x
2	55	54.3	
2	60	54	
2	1:05	56	x
2	1:10	57.8	x
2	1:15	57	x
2	1:20	57.3	x
2	1:25	55.3	x
2	1:30	52.5	
2	1:35	53.5	
2	1:40	55	
2	1:45	55.9	x
2	1:50	56.9	x
2	1:55	57.2	x
2	2:00	57.8	x
2	2:05	58.7	x
2	2:10	59.4	x
2	2:15	58.4	x
2	2:20	56.2	x
2	2:25	55.5	
2	2:30	55.9	Lmax
2	2:35	58.1	x
2	2:40	56.2	x
2	2:45	56.6	x
2	2:50	58.4	x
2	2:55	58	x
2	3:00	58	x
2	3:05	59.3	x
2	3:10	57.6	x
2	3:15	56.6	x
2	3:20	55.8	x
2	3:25	55.8	
2	3:30	54.3	
2	3:35	56.7	x
2	3:40	56.8	x
2	3:45	56.8	x
2	3:50	56.8	x
2	3:55	57.5	x
2	4:00	58.1	x
2	4:05	56	x
2	4:10	55.6	x
2	4:15	57.1	x
2	4:20	58.3	x

27 Ridgeview Rd.			
Date: 5 June 2012			
Time: 11:05 am			
Run #	mm:ss	dB(A)	
3	5	56.6	Lmax
3	10	56.2	
3	15	55.5	
3	20	55.3	
3	25	54.7	
3	30	56.9	x
3	35	56.5	x
3	40	58	x
3	45	55.2	x
3	50	56.8	x
3	55	57	x
3	60	57	x
3	1:05	55.6	x
3	1:10	56	x
3	1:15	57.2	x
3	1:20	54.5	
3	1:25	56.2	
3	1:30	56	
3	1:35	58	x
3	1:40	58.6	x
3	1:45	56.3	x
3	1:50	58.2	x
3	1:55	53.8	
3	2:00	56.4	
3	2:05	55.3	
3	2:10	55.2	
3	2:15	56.1	
3	2:20	54.9	
3	2:25	57.4	x
3	2:30	56.6	x
3	2:35	59.8	x
3	2:40	57.7	x
3	2:45	55.1	
3	2:50	54.7	
3	2:55	55	
3	3:00	54.6	
3	3:05	51.5	
3	3:10	52.4	
3	3:15	52.4	
3	3:20	53	
3	3:25	53.5	
3	3:30	53.1	
3	3:35	51.1	
3	3:40	52	
3	3:45	55.1	x
3	3:50	57.7	x
3	3:55	57	x
3	4:00	56.7	x
3	4:05	54.8	
3	4:10	55	
3	4:15	53.9	
3	4:20	54.2	

Broadband Impact Analysis

1	4:25	59.9	x
1	4:30	59.8	x
1	4:35	58.3	x
1	4:40	56.3	
1	4:45	56.2	
1	4:50	56.3	x
1	4:55	57.4	x
1	5:00	56.2	x

2	4:25	57.6	x
2	4:30	58.1	x
2	4:35	56.2	x
2	4:40	55.2	
2	4:45	54	
2	4:50	53.3	
2	4:55	53.3	
2	5:00	56.3	x

3	4:25	54.6
3	4:30	53.7
3	4:35	53.9
3	4:40	54.2
3	4:45	53.5
3	4:50	53.1
3	4:55	53
3	5:00	53.5

Lmax (Avg)	**56.5**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	61	dBA
Leq	56.9	dBA
L01	60.6	dBA
L10	58.5	dBA
L50	56.6	dBA
L90	54.3	dBA
LC-A	10	dBA

Lmax	60.3	dBA
Leq	56.7	dBA
L01	59.4	dBA
L10	58.3	dBA
L50	56.6	dBA
L90	53.5	dBA
LC-A	6.2	dBA

Lmax	60.6	dBA
Leq	55.7	dBA
L01	59.7	dBA
L10	57.7	dBA
L50	55.2	dBA
L90	52.8	dBA
LC-A	6.8	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	8.6	m/s
WS at CGAS	4.6	m/s
WD at Hub	18	degrees
WD at CGAS	20	degrees
BP	29.84	in
Humidity	46.4	%
Temp	51.8	degr F

Broadband Impact Analysis

124 Ambleside Drive			
Date: 5 June 12			
Time: 1015			
Run #	mm:ss	dB(A)	
1	5	46.9	
1	10	45.4	
1	15	47.6	
1	20	52.9	
1	25	52.5	
1	30	51.3	
1	35	48.8	
1	40	52.3	
1	45	54.1	LMax
1	50	49.3	
1	55	52	
1	60	48.1	
1	1:05	53.6	
1	1:10	53.2	
1	1:15	51.5	
1	1:20	56.5	x
1	1:25	56.8	x
1	1:30	52.5	
1	1:35	51.7	
1	1:40	53.4	
1	1:45	50.2	
1	1:50	53.7	
1	1:55	50.2	
1	2:00	51.8	
1	2:05	52.5	
1	2:10	52.1	
1	2:15	54.9	x
1	2:20	52.2	
1	2:25	52.8	x
1	2:30	54.9	x
1	2:35	50.7	
1	2:40	53.2	
1	2:45	52.1	
1	2:50	48.3	
1	2:55	48.8	
1	3:00	50	
1	3:05	51.2	
1	3:10	48.5	
1	3:15	51.4	
1	3:20	49.3	
1	3:25	46.7	
1	3:30	46.8	
1	3:35	45.4	
1	3:40	45.6	
1	3:45	45.2	
1	3:50	46.9	
1	3:55	47.6	
1	4:00	49.7	
1	4:05	48.4	
1	4:10	45.5	
1	4:15	49.2	

124 Ambleside Drive			
Date: 5 June 12			
Time: 1026			
Run #	mm:ss	dB(A)	
2	5	50.8	
2	10	48.5	
2	15	50.6	
2	20	49.2	
2	25	53.1	
2	30	51	
2	35	49.6	
2	40	51.3	
2	45	51.8	
2	50	52.5	
2	55	50.1	
2	60	47.2	
2	1:05	50.8	
2	1:10	50.2	
2	1:15	54.8	x
2	1:20	54.7	x
2	1:25	53	x
2	1:30	48.6	
2	1:35	50	
2	1:40	51.9	
2	1:45	51.5	
2	1:50	50.8	
2	1:55	51.4	
2	2:00	50.2	
2	2:05	49.9	
2	2:10	54.1	
2	2:15	52	
2	2:20	50	
2	2:25	53.6	
2	2:30	49.3	
2	2:35	50.7	
2	2:40	51.9	
2	2:45	53.2	
2	2:50	53.3	
2	2:55	54.3	Lmax
2	3:00	52.4	
2	3:05	53.2	
2	3:10	51.4	
2	3:15	50.6	
2	3:20	48.3	
2	3:25	48.9	
2	3:30	50.7	
2	3:35	51.5	
2	3:40	53.1	
2	3:45	50.9	
2	3:50	51.9	
2	3:55	53.7	
2	4:00	53.5	
2	4:05	58.2	x
2	4:10	55.6	x
2	4:15	50.6	

124 Ambleside Drive			
Date: 5 June 12			
Time: 1035			
Run #	mm:ss	dB(A)	
3	5	49.6	
3	10	52.8	x
3	15	50.5	
3	20	49.2	
3	25	49.9	
3	30	51.3	
3	35	51.4	
3	40	52.6	
3	45	51.1	
3	50	49	
3	55	48.7	
3	60	53.3	
3	1:05	53.5	Lmax
3	1:10	52.5	
3	1:15	50.3	
3	1:20	50.3	
3	1:25	49.3	
3	1:30	51.5	
3	1:35	52.3	
3	1:40	53.2	
3	1:45	49.7	
3	1:50	51.1	
3	1:55	50.2	
3	2:00	51.9	
3	2:05	51.5	
3	2:10	51.4	
3	2:15	53.3	
3	2:20	52.6	
3	2:25	51.5	
3	2:30	52	
3	2:35	55.3	x
3	2:40	52.9	
3	2:45	48.3	
3	2:50	50.2	
3	2:55	51.8	
3	3:00	51.9	
3	3:05	50.5	
3	3:10	58.1	x
3	3:15	53.1	x
3	3:20	53.2	
3	3:25	53.5	
3	3:30	53.4	
3	3:35	57.9	x
3	3:40	54	x
3	3:45	53	
3	3:50	59.5	x
3	3:55	53.5	x
3	4:00	52.5	
3	4:05	52	
3	4:10	56.3	x
3	4:15	53.1	

Broadband Impact Analysis

1	4:20	50.8
1	4:25	48.7
1	4:30	46.5
1	4:35	50.4
1	4:40	51.5
1	4:45	49.9
1	4:50	50.9
1	4:55	50.7
1	5:00	52

2	4:20	54
2	4:25	53.8
2	4:30	51.6
2	4:35	50.8
2	4:40	50.6
2	4:45	50.7
2	4:50	51.1
2	4:55	53.2
2	5:00	49.8

3	4:20	52.5
3	4:25	52.2
3	4:30	56
3	4:35	51.2
3	4:40	52.2
3	4:45	49.9
3	4:50	52.8
3	4:55	53
3	5:00	53.5

x

Lmax (Avg)	**54.0**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	57.6	dBA
Leq	51.2	dBA
L01	56.7	dBA
L10	53.5	dBA
L50	50.5	dBA
L90	46	dBA
LC-A	7.9	dBA

Lmax	59.5	dBA
Leq	52	dBA
L01	57.4	dBA
L10	53.8	dBA
L50	51.3	dBA
L90	49.3	dBA
LC-A	8.3	dBA

Lmax	64.6	dBA
Leq	53.3	dBA
L01	61.4	dBA
L10	54.7	dBA
L50	52.1	dBA
L90	49.2	dBA
LC-A	7.1	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	9.7	m/s
WS at CGAS	4.6	m/s
WD at Hub	21	degrees
WD at CGAS	10	degrees
BP	29.84	in
Humidity	46.4	%
Temp	51.8	degr F

Broadband Impact Analysis

821 West Falmouth Highway			
Date: 5 Jun 12			
Time: 9:40 am			
Run #	mm:ss	dB(A)	
1	5	52.6	
1	10	49.4	
1	15	48.8	
1	20	47.7	
1	25	49.6	
1	30	49.5	
1	35	49.8	
1	40	48.2	
1	45	52.2	
1	50	51.3	
1	55	51	
1	60	50.3	
1	1:05	50.9	
1	1:10	52.8	
1	1:15	51.8	
1	1:20	51.3	
1	1:25	51.9	
1	1:30	48.8	
1	1:35	51.6	
1	1:40	51.3	x
1	1:45	53	x
1	1:50	54.5	x
1	1:55	53.8	
1	2:00	57.1	x
1	2:05	55.1	x
1	2:10	54.8	Lmax
1	2:15	55.1	x
1	2:20	52.6	
1	2:25	52	
1	2:30	54.6	x
1	2:35	53.4	x
1	2:40	52.1	
1	2:45	52	
1	2:50	52.5	
1	2:55	51.1	
1	3:00	53.6	
1	3:05	53.9	
1	3:10	52.2	
1	3:15	52	
1	3:20	50.8	
1	3:25	49.6	
1	3:30	53.2	
1	3:35	53.6	x
1	3:40	51.6	
1	3:45	51.8	
1	3:50	51.9	
1	3:55	52.1	
1	4:00	54.3	
1	4:05	54.9	x

821 West Falmouth Highway			
Date: 5 Jun 12			
Time: 9:48 am			
Run #	mm:ss	dB(A)	
2	5	47.6	
2	10	51.6	
2	15	51.5	
2	20	50.1	
2	25	52.5	
2	30	53.8	
2	35	52.7	
2	40	52	
2	45	53.6	
2	50	50.9	
2	55	52.4	
2	60	53.7	
2	1:05	53.3	
2	1:10	54.2	
2	1:15	54.8	LMax
2	1:20	54	
2	1:25	56.2	x
2	1:30	52.8	
2	1:35	53	
2	1:40	53.7	
2	1:45	53.3	
2	1:50	52	
2	1:55	51.3	
2	2:00	52.8	
2	2:05	52	
2	2:10	51.7	
2	2:15	51.6	
2	2:20	50.3	
2	2:25	53.8	
2	2:30	50.5	
2	2:35	51.4	
2	2:40	53.1	
2	2:45	52.7	
2	2:50	54.1	
2	2:55	52.4	
2	3:00	53.4	
2	3:05	51.6	
2	3:10	53	
2	3:15	54.9	x
2	3:20	53.3	
2	3:25	53.6	
2	3:30	52.2	
2	3:35	52.5	
2	3:40	53.1	
2	3:45	54.8	x
2	3:50	55.6	x
2	3:55	55.2	x
2	4:00	51.9	
2	4:05	50.8	

821 West Falmouth Highway			
Date: 5 Jun 12			
Time: 9:55 am			
Run #	mm:ss	dB(A)	
3	5	53.2	
3	10	53	
3	15	53.5	
3	20	51.8	
3	25	54	
3	30	52.7	
3	35	51	
3	40	53.2	
3	45	50.8	
3	50	51.3	
3	55	52.4	
3	60	50.1	
3	1:05	52.1	
3	1:10	51.5	
3	1:15	51.9	
3	1:20	51.1	
3	1:25	50.7	
3	1:30	50.1	
3	1:35	50.4	
3	1:40	50.8	
3	1:45	52.6	
3	1:50	50.9	
3	1:55	50.3	
3	2:00	51.4	
3	2:05	51	
3	2:10	50.2	
3	2:15	50.6	
3	2:20	51.1	
3	2:25	50.7	
3	2:30	54	x
3	2:35	52.3	
3	2:40	53.1	
3	2:45	55.3	x
3	2:50	51.2	
3	2:55	50.3	
3	3:00	52.1	
3	3:05	52.8	
3	3:10	51.7	
3	3:15	52.3	
3	3:20	53.3	
3	3:25	54.3	Lmax
3	3:30	49.7	
3	3:35	48.5	
3	3:40	49	
3	3:45	53.2	x
3	3:50	52	x
3	3:55	50.1	
3	4:00	48.6	
3	4:05	48.6	

Broadband Impact Analysis

1	4:10	53.6	
1	4:15	53.5	
1	4:20	54.7	
1	4:25	54.2	
1	4:30	53.9	
1	4:35	52.8	
1	4:40	53	
1	4:45	54.8	
1	4:50	53.6	x
1	4:55	55	x
1	5:00	53.1	

2	4:10	54.9	x
2	4:15	51.7	
2	4:20	53.9	x
2	4:25	58.3	x
2	4:30	52.9	
2	4:35	53.8	
2	4:40	54.8	x
2	4:45	54.9	x
2	4:50	55.7	x
2	4:55	55.3	x
2	5:00	54	x

3	4:10	50.3	
3	4:15	50.4	
3	4:20	51.1	
3	4:25	51.2	
3	4:30	51.3	
3	4:35	48.9	
3	4:40	49.9	
3	4:45	51.5	
3	4:50	49.2	
3	4:55	53.2	x
3	5:00	53.8	x

Lmax (Avg)	**54.6**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	57.5	dBA
Leq	52.7	dBA
L01	56.6	dBA
L10	54.6	dBA
L50	52.3	dBA
L90	49.6	dBA
LC-A	8.5	dBA

Lmax	58.7	dBA
Leq	53.3	dBA
L01	57.3	dBA
L10	54.9	dBA
L50	52.9	dBA
L90	50.9	dBA
LC-A	7.7	dBA

Lmax	58.2	dBA
Leq	51.8	dBA
L01	55.2	dBA
L10	53.5	dBA
L50	51.2	dBA
L90	49.3	dBA
LC-A	8.6	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	8.2	m/s
WS at CGAS	6.2	m/s
WD at Hub	6	degrees
WD at CGAS	20	degrees
BP	29.83	in
Humidity	46.4	%
Temp	51:8	degr F

Broadband Ambient Analysis (Background)

260 Fire Tower Rd			
Date: 5 June 12			
Time: 1:05 pm			
Run #	mm:ss	dB(A)	
1	5	48	
1	10	43.4	
1	15	45.7	
1	20	41.7	
1	25	46	x
1	30	49.9	x
1	35	53.5	x
1	40	47.2	x
1	45	45.1	
1	50	43.6	
1	55	43.7	
1	60	46	
1	1:05	46.4	
1	1:10	44.5	
1	1:15	43.9	
1	1:20	42.2	
1	1:25	42.8	
1	1:30	42.9	
1	1:35	43.7	
1	1:40	45.9	
1	1:45	47.3	x
1	1:50	48.4	x
1	1:55	48.7	x
1	2:00	48	x
1	2:05	46.7	x
1	2:10	44.7	
1	2:15	44.8	
1	2:20	43.6	
1	2:25	46	
1	2:30	56.8	x
1	2:35	47.7	x
1	2:40	43.9	
1	2:45	41.7	
1	2:50	43.3	
1	2:55	42.1	
1	3:00	46	
1	3:05	42.9	
1	3:10	42.6	
1	3:15	42.3	
1	3:20	42.9	
1	3:25	43.1	
1	3:30	46.2	
1	3:35	44.5	
1	3:40	42.4	
1	3:45	42.1	
1	3:50	41.5	
1	3:55	47	
1	4:00	40.7	
1	4:05	41.2	
1	4:10	42.9	
1	4:15	46	x
1	4:20	48.8	x

260 Fire Tower Rd			
Date: 5 June 12			
Time: 1:11 pm			
Run #	mm:ss	dB(A)	
2	5	42.7	
2	10	43.9	
2	15	42.7	
2	20	43.8	
2	25	43.6	
2	30	42.9	
2	35	41.4	
2	40	40.6	
2	45	40.5	
2	50	40.2	
2	55	42.3	
2	60	44.1	
2	1:05	43.1	
2	1:10	42.4	
2	1:15	41.7	
2	1:20	41.2	
2	1:25	42.9	
2	1:30	42.6	
2	1:35	43.4	
2	1:40	43.4	
2	1:45	43.3	
2	1:50	43.9	
2	1:55	46.4	
2	2:00	45.7	
2	2:05	45	
2	2:10	42.7	
2	2:15	43.1	
2	2:20	47.5	x
2	2:25	57.5	x
2	2:30	50.2	x
2	2:35	46.2	
2	2:40	46.2	
2	2:45	43.8	
2	2:50	44	
2	2:55	44.7	
2	3:00	42.9	
2	3:05	43	
2	3:10	42.5	
2	3:15	43.1	
2	3:20	41.9	
2	3:25	43.7	
2	3:30	44.5	
2	3:35	44	
2	3:40	44.1	
2	3:45	43.6	
2	3:50	44.7	
2	3:55	45.7	
2	4:00	47.1	
2	4:05	45	
2	4:10	45.4	
2	4:15	44.5	
2	4:20	44.9	

260 Fire Tower Rd			
Date: 5 June 12			
Time: 1:17 pm			
Run #	mm:ss	dB(A)	
3	5	44.9	
3	10	44.4	
3	15	44.1	
3	20	43	
3	25	41.1	
3	30	41.4	
3	35	39.9	
3	40	40.9	
3	45	41.6	
3	50	46.1	x
3	55	66.6	x
3	60	58.2	x
3	1:05	47.7	
3	1:10	41.8	
3	1:15	41.1	
3	1:20	41.1	
3	1:25	41.5	
3	1:30	43.3	
3	1:35	42.3	
3	1:40	41.1	
3	1:45	42	
3	1:50	43.6	
3	1:55	41.1	
3	2:00	41.5	
3	2:05	40.1	
3	2:10	41	
3	2:15	40.9	
3	2:20	39.2	
3	2:25	38.8	
3	2:30	39.3	
3	2:35	42	
3	2:40	40.6	
3	2:45	40.3	
3	2:50	45.3	
3	2:55	40.5	
3	3:00	39.9	
3	3:05	40.2	
3	3:10	39.6	
3	3:15	41.2	
3	3:20	41.2	
3	3:25	43.2	
3	3:30	46.2	x
3	3:35	47.3	x
3	3:40	47.6	x
3	3:45	45.3	x
3	3:50	45.3	x
3	3:55	44.22	x
3	4:00	46.7	x
3	4:05	43.4	
3	4:10	42.8	
3	4:15	44.3	
3	4:20	41.6	

Broadband Ambient Analysis (Background)

1	4:25	48.3	x
1	4:30	46.9	x
1	4:35	45.6	
1	4:40	43.7	
1	4:45	43.1	
1	4:50	42.8	
1	4:55	44	
1	5:00	45.4	

2	4:25	45.5	
2	4:30	44.9	
2	4:35	45.1	
2	4:40	44.7	
2	4:45	50	x
2	4:50	60.7	x
2	4:55	47.1	x
2	5:00	44.2	

3	4:25	43	
3	4:30	40.7	
3	4:35	40.6	
3	4:40	40.6	
3	4:45	40.7	L90
3	4:50	40.7	
3	4:55	41.2	
3	5:00	49.7	x

L90	**40.7**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	57	dBA
Leq	46.4	dBA
L01	54.5	dBA
L10	48.5	dBA
L50	44.2	dBA
L90	42.1	dBA
LC-A	12.7	dBA

Lmax	65.2	dBA
Leq	48.2	dBA
L01	60.6	dBA
L10	46.7	dBA
L50	43.7	dBA
L90	41.8	dBA
LC-A	7.4	dBA

Lmax	68.8	dBA
Leq	49.7	dBA
L01	64	dBA
L10	46.4	dBA
L50	41.6	dBA
L90	40	dBA
LC-A	11	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	5	m/s
WS at CGAS	5.1	m/s
WD at Hub	3	degrees
WD at CGAS	40	degrees
BP	29.87	in
Humidity	48.2	%
Temp	53.6	degr F

Broadband Ambient Analysis (Background)

27 Ridgeview Rd			
Date: 5 June 12			
Time: 1:52 pm			
Run #	mm:ss	dB(A)	
1	5	55.5	
1	10	52.5	
1	15	55.5	
1	20	55.7	
1	25	55.3	
1	30	54	
1	35	55.2	
1	40	53.1	
1	45	55.5	
1	50	56.9	
1	55	54.7	
1	60	56.9	
1	1:05	55.2	
1	1:10	57	
1	1:15	57.7	x
1	1:20	56.8	
1	1:25	57.5	
1	1:30	56.1	
1	1:35	55.6	
1	1:40	55.8	
1	1:45	55.6	
1	1:50	56.5	
1	1:55	57.8	x
1	2:00	54.6	
1	2:05	53.7	
1	2:10	52	
1	2:15	55.4	
1	2:20	54.4	
1	2:25	54.4	
1	2:30	52.4	
1	2:35	53.2	
1	2:40	54.9	
1	2:45	54.5	
1	2:50	54.5	
1	2:55	54.6	
1	3:00	55.6	
1	3:05	53.7	
1	3:10	49.5	
1	3:15	49.5	
1	3:20	50.9	
1	3:25	52.5	L90
1	3:30	52.8	
1	3:35	56.7	
1	3:40	57.7	x
1	3:45	58	x
1	3:50	56.5	
1	3:55	54.5	
1	4:00	56.7	
1	4:05	55	
1	4:10	52.7	
1	4:15	54.9	
1	4:20	53.9	

27 Ridgeview Rd			
Date: 5 June 12			
Time: 1:58 pm			
Run #	mm:ss	dB(A)	
2	5	54.8	
2	10	54.1	
2	15	56.1	
2	20	57.5	
2	25	55.9	
2	30	55.5	
2	35	53.8	
2	40	55.7	
2	45	56.9	
2	50	56.3	
2	55	56.8	
2	60	57.4	
2	1:05	58.6	x
2	1:10	57.6	x
2	1:15	56.5	
2	1:20	55.9	
2	1:25	53.7	
2	1:30	56.4	x
2	1:35	54.8	x
2	1:40	56.8	x
2	1:45	59.2	x
2	1:50	59.3	x
2	1:55	56.6	
2	2:00	58.3	x
2	2:05	55.7	
2	2:10	54.1	
2	2:15	54.2	
2	2:20	55.4	
2	2:25	52.5	
2	2:30	51.1	
2	2:35	50.7	
2	2:40	51.2	
2	2:45	53	
2	2:50	54.2	
2	2:55	58	x
2	3:00	56.9	
2	3:05	57.6	x
2	3:10	58.1	x
2	3:15	55.8	
2	3:20	54.5	
2	3:25	55	
2	3:30	53.8	
2	3:35	54.3	
2	3:40	54	
2	3:45	54.6	
2	3:50	57.2	
2	3:55	53.2	
2	4:00	53.7	
2	4:05	51.8	
2	4:10	50.3	
2	4:15	50.5	
2	4:20	55.4	

27 Ridgeview Rd			
Date: 5 June 12			
Time: 2:04 pm			
Run #	mm:ss	dB(A)	
3	5	55.4	
3	10	52.9	
3	15	53.7	
3	20	51.9	
3	25	52.9	
3	30	53.1	
3	35	56.2	
3	40	55.8	
3	45	55.2	
3	50	56.2	
3	55	56.2	
3	60	54.4	
3	1:05	55.3	
3	1:10	55	
3	1:15	57.4	
3	1:20	56.7	
3	1:25	55.1	
3	1:30	56.1	
3	1:35	54.4	
3	1:40	56.2	
3	1:45	55	
3	1:50	56.5	
3	1:55	57.8	x
3	2:00	59.4	x
3	2:05	57.9	x
3	2:10	58.6	x
3	2:15	56.1	
3	2:20	54.5	
3	2:25	52.2	
3	2:30	57	
3	2:35	56.7	
3	2:40	55.4	
3	2:45	54.2	
3	2:50	52.4	
3	2:55	52.6	
3	3:00	53	
3	3:05	53.4	
3	3:10	54.2	
3	3:15	55.7	
3	3:20	51.6	
3	3:25	54.6	
3	3:30	52.8	
3	3:35	53.6	
3	3:40	55.9	
3	3:45	56.1	
3	3:50	53.7	
3	3:55	56.2	
3	4:00	54.9	
3	4:05	55.6	
3	4:10	54.6	
3	4:15	56.3	
3	4:20	57.2	x

Broadband Ambient Analysis (Background)

1	4:25	53.8
1	4:30	54.1
1	4:35	52.6
1	4:40	55
1	4:45	56.6
1	4:50	54.2
1	4:55	57.4
1	5:00	55.1

2	4:25	54.6
2	4:30	53
2	4:35	53.5
2	4:40	54.1
2	4:45	53.6
2	4:50	52.9
2	4:55	53.6
2	5:00	55.7

3	4:25	55.2
3	4:30	54.5
3	4:35	55.3
3	4:40	57.1
3	4:45	54.7
3	4:50	51.2
3	4:55	53.4
3	5:00	55.3

L90	**52.5**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	59	dBA
Leq	55.2	dBA
L01	58.2	dBA
L10	57	dBA
L50	54.9	dBA
L90	52.4	dBA
LC-A	5.3	dBA

Lmax	61.1	dBA
Leq	55.6	dBA
L01	60.2	dBA
L10	57.8	dBA
L50	54.9	dBA
L90	51.7	dBA
LC-A	7.6	dBA

Lmax	60.7	dBA
Leq	55.3	dBA
L01	59.1	dBA
L10	57	dBA
L50	55	dBA
L90	52.4	dBA
LC-A	7.1	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	6.7	m/s
WS at CGAS	5.6	m/s
WD at Hub	14	degrees
WD at CGAS	0	degrees
BP	29.88	in
Humidity	46.4	%
Temp	51.8	degr F

Broadband Ambient Analysis (Background)

124 Ambleside Dr			
Date: 5 Jun 2012			
Time: 2:25 pm			
Run #	mm:ss	dB(A)	
1	5	52.3	
1	10	53.1	
1	15	50.7	
1	20	46.7	
1	25	47.3	
1	30	48.6	
1	35	49.9	
1	40	52.6	
1	45	63.2	x
1	50	58.7	x
1	55	58.8	x
1	60	52.1	
1	1:05	49.6	
1	1:10	50.2	
1	1:15	52.1	
1	1:20	55.7	
1	1:25	50.9	
1	1:30	49	
1	1:35	52.9	
1	1:40	51.4	
1	1:45	50.8	
1	1:50	54.5	
1	1:55	52.6	
1	2:00	53.8	
1	2:05	53.6	
1	2:10	52.8	
1	2:15	51.5	
1	2:20	52.7	
1	2:25	49.5	
1	2:30	55.1	
1	2:35	54.4	
1	2:40	53.3	
1	2:45	50.6	
1	2:50	50	
1	2:55	50.2	
1	3:00	51.9	
1	3:05	55.2	
1	3:10	52.9	
1	3:15	50.3	
1	3:20	51.3	
1	3:25	50.7	
1	3:30	54.2	
1	3:35	50.9	
1	3:40	49.2	
1	3:45	51.4	
1	3:50	52.2	
1	3:55	53.2	
1	4:00	54.2	
1	4:05	52.1	
1	4:10	51.6	
1	4:15	53.2	
1	4:20	52.7	

124 Ambleside Dr			
Date: 5 Jun 2012			
Time: 2:35 pm			
Run #	mm:ss	dB(A)	
2	5	51.4	
2	10	52.3	
2	15	51.3	
2	20	48.6	
2	25	47.6	
2	30	48.9	
2	35	49.8	
2	40	50.7	
2	45	49.3	
2	50	48.5	
2	55	54.8	
2	60	52.9	
2	1:05	51.6	
2	1:10	53	
2	1:15	52.8	
2	1:20	51.9	
2	1:25	49.5	
2	1:30	50.3	
2	1:35	48.9	
2	1:40	46.1	
2	1:45	49.8	
2	1:50	50.9	
2	1:55	50.5	
2	2:00	47	
2	2:05	49	
2	2:10	53	
2	2:15	54.9	
2	2:20	50.6	
2	2:25	50.3	
2	2:30	50	
2	2:35	50.7	
2	2:40	60.7	x
2	2:45	57.5	x
2	2:50	49.1	
2	2:55	47.6	
2	3:00	49.4	
2	3:05	49.4	
2	3:10	51.4	
2	3:15	51.2	
2	3:20	51	
2	3:25	51.8	
2	3:30	53.1	x
2	3:35	53.7	x
2	3:40	53.2	x
2	3:45	52.8	
2	3:50	50.7	
2	3:55	45.4	
2	4:00	47.1	
2	4:05	48.8	
2	4:10	49.8	
2	4:15	50.1	
2	4:20	50.5	

124 Ambleside Dr			
Date: 5 Jun 2012			
Time: 2:41 pm			
Run #	mm:ss	dB(A)	
3	5	50.7	
3	10	52	
3	15	48.9	L90
3	20	52.6	
3	25	51.9	
3	30	52.2	
3	35	55.2	
3	40	52.6	
3	45	49.9	
3	50	51.3	
3	55	50.8	
3	60	49.9	
3	1:05	50.9	
3	1:10	50.9	
3	1:15	54.1	
3	1:20	52.7	
3	1:25	52.8	
3	1:30	51.5	
3	1:35	53	
3	1:40	50.5	
3	1:45	52	
3	1:50	52.2	
3	1:55	55.8	
3	2:00	53.5	
3	2:05	51.7	
3	2:10	51.4	
3	2:15	52.1	
3	2:20	53.8	
3	2:25	55.4	
3	2:30	58.7	x
3	2:35	56.5	x
3	2:40	65.6	x
3	2:45	58.9	x
3	2:50	50.8	
3	2:55	51.3	
3	3:00	51.3	
3	3:05	51.4	
3	3:10	51.4	
3	3:15	54.6	
3	3:20	50.7	
3	3:25	54	
3	3:30	52.7	
3	3:35	51.1	
3	3:40	52.8	
3	3:45	52.3	
3	3:50	51.1	
3	3:55	53.3	
3	4:00	55.8	
3	4:05	54.4	
3	4:10	51.6	
3	4:15	47.6	
3	4:20	52.2	

Broadband Ambient Analysis (Background)

1	4:25	52.7
1	4:30	52.8
1	4:35	51.3
1	4:40	53.5
1	4:45	53.2
1	4:50	51.5
1	4:55	51.2
1	5:00	49.7

2	4:25	47.5	
2	4:30	47.3	
2	4:35	47.9	
2	4:40	49.6	
2	4:45	51	
2	4:50	50.3	
2	4:55	57.5	x
2	5:00	53.5	

3	4:25	53.7
3	4:30	50.8
3	4:35	51.1
3	4:40	51.2
3	4:45	53.2
3	4:50	50
3	4:55	48.7
3	5:00	52.8

L90	**48.9**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	61.2	dBA
Leq	54.5	dBA
L01	60.7	dBA
L10	57.2	dBA
L50	53.4	dBA
L90	49.8	dBA
LC-A	7.2	dBA

Lmax	60.7	dBA
Leq	51.7	dBA
L01	58.7	dBA
L10	53.9	dBA
L50	50.6	dBA
L90	47.6	dBA
LC-A	9.3	dBA

Lmax	68.5	dBA
Leq	54.3	dBA
L01	65.5	dBA
L10	55.3	dBA
L50	52	dBA
L90	49.6	dBA
LC-A	7.4	dBA

Met Data		
WS at Ground	< 1	m/s
WS at Hub	7.9	m/s
WS at CGAS	5.1	m/s
WD at Hub	21	degrees
WD at CGAS	20	degrees
BP	29.88	in
Humidity	46.4	%
Temp	53.6	degr F

Broadband Impact Analysis

211 Blacksmith Shop Rd.			
Date: 12 June 12			
Time: 1:45 pm			
Run #	mm:ss	dB(A)	
1	1:05	49.3	x
1	1:10	48.5	x
1	1:15	49.7	x
1	1:20	48.3	x
1	1:25	48.9	x
1	1:30	48.4	x
1	1:35	49.9	x
1	1:40	51.2	x
1	1:45	50	x
1	1:50	50.7	x
1	1:55	47.5	x
1	2:00	47.6	x
1	2:05	45.1	
1	2:10	55.7	x
1	2:15	43.5	
1	2:20	43	
1	2:25	42.2	
1	2:30	41	
1	2:35	41.7	
1	2:40	42.5	
1	2:45	44.2	
1	2:50	45.5	
1	2:55	44.8	
1	3:00	45.3	
1	3:05	48	x
1	3:10	47.2	x
1	3:15	43.7	
1	3:20	42.2	
1	3:25	42.3	
1	3:30	41.7	
1	3:35	40.9	
1	3:40	40.3	
1	3:45	39.7	
1	3:50	41.7	
1	3:55	42.3	t
1	4:00	40.6	
1	4:05	40.8	t
1	4:10	42.1	t
1	4:15	41.7	t
1	4:20	43.3	
1	4:25	45.5	x
1	4:30	48.1	x
1	4:35	44.1	x
1	4:40	43.5	
1	4:45	44.5	
1	4:50	46.9	x
1	4:55	46.4	
1	5:00	49.3	x
1	5	46.9	x
1	10	44.7	
1	15	44.9	
1	20	45.2	x

211 Blacksmith Shop Rd.			
Date: 12 June 12			
Time: 1:53 pm			
Run #	mm:ss	dB(A)	
2	1:05	45.2	
2	1:10	45.1	
2	1:15	43.9	
2	1:20	43.9	
2	1:25	44	
2	1:30	42.4	
2	1:35	42.8	
2	1:40	45.6	
2	1:45	45.7	
2	1:50	49	x
2	1:55	49.8	x
2	2:00	49.8	x
2	2:05	51.9	x
2	2:10	48.2	x
2	2:15	49.5	x
2	2:20	49.8	x
2	2:25	48.8	x
2	2:30	47.2	x
2	2:35	45.8	x
2	2:40	45.3	t
2	2:45	46.1	t
2	2:50	47.7	x
2	2:55	50.3	x
2	3:00	48.8	x
2	3:05	46.7	x
2	3:10	45.5	
2	3:15	47.3	x
2	3:20	46	
2	3:25	43.7	
2	3:30	42.1	
2	3:35	42.1	
2	3:40	44.3	
2	3:45	51.1	x
2	3:50	53.4	x
2	3:55	48.6	x
2	4:00	45.8	
2	4:05	48.2	x
2	4:10	50	x
2	4:15	48.1	x
2	4:20	46.5	
2	4:25	48.6	x
2	4:30	50.6	x
2	4:35	51	x
2	4:40	50	x
2	4:45	50.2	x
2	4:50	45.5	
2	4:55	46.5	
2	5:00	45	
2	5	42.3	
2	10	43.4	
2	15	43.5	
2	20	47.1	x

211 Blacksmith Shop Rd.			
Date: 12 June 12			
Time: 1:59 pm			
Run #	mm:ss	dB(A)	
3	1:05	55.1	x
3	1:10	48.2	x
3	1:15	46.9	Lmax3
3	1:20	44.7	
3	1:25	44.4	
3	1:30	43.3	
3	1:35	45	
3	1:40	48.9	x
3	1:45	52.8	x
3	1:50	50.9	x
3	1:55	50.2	x
3	2:00	48.4	x
3	2:05	47	x
3	2:10	56.3	x
3	2:15	54.9	x
3	2:20	51.3	x
3	2:25	48.3	x
3	2:30	48	x
3	2:35	45.2	
3	2:40	44.8	
3	2:45	43.8	t
3	2:50	43.3	
3	2:55	43.6	
3	3:00	45	
3	3:05	43.5	
3	3:10	45.1	
3	3:15	46.9	x
3	3:20	46.7	x
3	3:25	46.9	x
3	3:30	49	x
3	3:35	47.8	x
3	3:40	45.9	
3	3:45	45.2	
3	3:50	44.9	
3	3:55	45.9	
3	4:00	46.4	
3	4:05	48.4	x
3	4:10	49.7	x
3	4:15	46.1	x
3	4:20	49.5	x
3	4:25	46.9	x
3	4:30	48.5	x
3	4:35	46.4	
3	4:40	44.7	
3	4:45	44.7	
3	4:50	45.4	
3	4:55	45.7	
3	5:00	44.8	
3	5	44.6	t
3	10	44.8	
3	15	45.9	
3	20	46.6	x

Broadband Impact Analysis

1	25	48.2	x
1	30	51.2	x
1	35	48.6	x
1	40	48.2	x
1	45	45.4	x
1	50	47.1	Lmax1
1	55	46.9	x
1	60	47.4	x

2	25	48.7	x
2	30	45.4	
2	35	43.8	
2	40	44.1	
2	45	46.1	
2	50	46.8	Lmax2
2	55	45.4	t
2	60	44.6	

3	25	49.2	x
3	30	51.2	x
3	35	47.6	x
3	40	46.1	
3	45	46.4	
3	50	46.4	
3	55	50.3	x
3	60	52.9	x

Lmax (Avg)	**46.9**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	55.9	dBA
Leq	46.8	dBA
L01	51.4	dBA
L10	49.7	dBA
L50	45.5	dBA
L90	41.3	dBA
LC-A	13.7	dBA

Lmax	53.9	dBA
Leq	47.6	dBA
L01	53.3	dBA
L10	50.4	dBA
L50	46.3	dBA
L90	43.3	dBA
LC-A	16.1	dBA

Lmax	61.2	dBA
Leq	48.7	dBA
L01	57.2	dBA
L10	51.2	dBA
L50	46.4	dBA
L90	43.7	dBA
LC-A	18.4	dBA

Met Data		
WS at Ground	2.5	m/s
WS at Hub	7.2	m/s
WS at CGAS	7.1	m/s
WD at Hub	173	degrees
WD at CGAS	190	degrees
BP	30.13	in
Humidity	57.2	%
Temp	70	degr F

Broadband Impact Analysis

260 Fire Tower Rd			
Date: 12 Jun 12			
Time: 2:13pm			
Run #	mm:ss	dB(A)	
1	5	39.3	
1	10	41.2	
1	15	41.1	
1	20	39.9	
1	25	39.4	
1	30	40	
1	35	39.9	
1	40	40.3	
1	45	41.1	t
1	50	40.6	t
1	55	40.9	t
1	60	42.2	t
1	1:05	42.5	
1	1:10	42.6	
1	1:15	44.5	
1	1:20	46.7	Lmax1
1	1:25	44.2	x
1	1:30	42.8	
1	1:35	43.7	x
1	1:40	43.4	x
1	1:45	43.7	
1	1:50	41.1	
1	1:55	41.7	
1	2:00	40.6	
1	2:05	40.7	
1	2:10	40.5	
1	2:15	40.6	
1	2:20	41.9	
1	2:25	41.6	
1	2:30	43	
1	2:35	48.1	x
1	2:40	44.7	x
1	2:45	43.2	
1	2:50	43.1	
1	2:55	39	
1	3:00	40.6	
1	3:05	39.6	
1	3:10	38.9	
1	3:15	39.4	
1	3:20	40.9	

260 Fire Tower Rd			
Date: 12 Jun 12			
Time: 2:38pm			
Run #	mm:ss	dB(A)	
2	5	40.6	
2	10	42.3	
2	15	41.1	
2	20	42	
2	25	42.5	x
2	30	39.7	
2	35	39.6	
2	40	40.2	
2	45	40.5	
2	50	42.2	
2	55	41.6	
2	60	43.3	
2	1:05	44	
2	1:10	44.5	
2	1:15	47.7	x
2	1:20	54.3	x
2	1:25	51.6	x
2	1:30	48.3	x
2	1:35	48	x
2	1:40	49.5	x
2	1:45	51.3	x
2	1:50	49.3	x
2	1:55	46.9	x
2	2:00	46.7	x
2	2:05	51.7	x
2	2:10	62.5	x
2	2:15	53	x
2	2:20	47.2	t
2	2:25	46.2	t
2	2:30	44.3	
2	2:35	43.4	
2	2:40	45.2	
2	2:45	48.2	Lmax2
2	2:50	49.7	x
2	2:55	46.9	
2	3:00	44.4	
2	3:05	44.4	
2	3:10	42.9	
2	3:15	42.5	t
2	3:20	44.2	t

260 Fire Tower Rd			
Date: 12 Jun 12			
Time: 2:45pm			
Run #	mm:ss	dB(A)	
3	5	45.3	
3	10	42.3	
3	15	41.8	
3	20	40.6	
3	25	40.5	
3	30	42.1	
3	35	43	
3	40	42.5	
3	45	41.7	
3	50	41.3	
3	55	41.9	
3	60	42.4	
3	1:05	43.3	
3	1:10	42.2	
3	1:15	41.6	
3	1:20	41.1	
3	1:25	41.2	
3	1:30	42.4	
3	1:35	43.4	
3	1:40	48.1	x
3	1:45	53.6	x
3	1:50	46.8	x
3	1:55	42.4	
3	2:00	43.7	
3	2:05	43.6	
3	2:10	44.1	t
3	2:15	45.6	x
3	2:20	46.9	x
3	2:25	45.5	x
3	2:30	46	x
3	2:35	50.3	x
3	2:40	51.9	x
3	2:45	48.2	x
3	2:50	44.9	x
3	2:55	44.3	x
3	3:00	43.9	x
3	3:05	42.8	
3	3:10	42.8	
3	3:15	43.4	
3	3:20	42.4	

260 Fire Tower Rd			
Date: 12 Jun 12			
Time: 2:52pm			
Run #	mm:ss	dB(A)	
4	5	43.7	x
4	10	49.2	x
4	15	51.6	x
4	20	54.7	x
4	25	50.3	x
4	30	46.3	x
4	35	45.9	
4	40	46.5	x
4	45	47.1	x
4	50	45.8	x
4	55	43.7	
4	60	43.6	
4	1:05	43.6	
4	1:10	41.7	
4	1:15	41	
4	1:20	42.9	
4	1:25	45.6	
4	1:30	45.3	
4	1:35	45.7	
4	1:40	45.9	
4	1:45	45.7	
4	1:50	45.8	x
4	1:55	46.7	x
4	2:00	46.1	x
4	2:05	45.9	x
4	2:10	45.5	x
4	2:15	44	x
4	2:20	46.9	x
4	2:25	58.2	x
4	2:30	48.5	x
4	2:35	46.1	Lmax4
4	2:40	45.2	
4	2:45	44	
4	2:50	43	
4	2:55	42	
4	3:00	41.5	
4	3:05	41.7	
4	3:10	41.1	
4	3:15	41.8	
4	3:20	42.4	

Broadband Impact Analysis

1	3:25	42	
1	3:30	44.1	x
1	3:35	46.5	x
1	3:40	45.9	x
1	3:45	47.1	x
1	3:50	46	x
1	3:55	45.4	x
1	4:00	47.7	x
1	4:05	54.4	x
1	4:10	nd	
1	4:15	nd	
1	4:20	nd	
1	4:25	nd	
1	4:30	nd	
1	4:35	nd	
1	4:40	nd	
1	4:45	nd	
1	4:50	nd	
1	4:55	nd	
1	5:00	nd	

2	3:25	45.3	t
2	3:30	46.5	
2	3:35	43.7	
2	3:40	43.3	
2	3:45	43.9	
2	3:50	43.6	
2	3:55	44.5	
2	4:00	46.4	
2	4:05	45.1	
2	4:10	43.5	
2	4:15	47.2	x
2	4:20	45.8	x
2	4:25	44.6	
2	4:30	43.9	
2	4:35	46.8	x
2	4:40	50.6	x
2	4:45	49	x
2	4:50	47.5	x
2	4:55	46.6	x
2	5:00	46	

3	3:25	43.8	x
3	3:30	49.8	x
3	3:35	50.1	x
3	3:40	49.1	x
3	3:45	46.1	x
3	3:50	44.1	
3	3:55	44.4	
3	4:00	44.2	
3	4:05	44.7	
3	4:10	45.8	x
3	4:15	51.4	x
3	4:20	55.8	x
3	4:25	47.5	
3	4:30	48.3	Lmax3
3	4:35	50.7	x
3	4:40	46.1	
3	4:45	44.3	
3	4:50	44.2	
3	4:55	44.1	
3	5:00	43.2	

4	3:25	43.6	
4	3:30	41.7	
4	3:35	41	
4	3:40	40.6	
4	3:45	40.4	
4	3:50	40.8	
4	3:55	39.2	
4	4:00	38.6	
4	4:05	39.4	
4	4:10	41.1	
4	4:15	42.3	
4	4:20	40.8	
4	4:25	44.8	x
4	4:30	40.2	
4	4:35	39.5	
4	4:40	41.5	
4	4:45	40.1	
4	4:50	40	
4	4:55	40.3	
4	5:00	42.3	

Lmax (Avg)	47.3	dBA

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	64.7	dBA
Leq	48.8	dBA
L01	63.4	dBA
L10	46.5	dBA
L50	41.9	dBA
L90	39.6	dBA
LC-A	11.9	dBA

Lmax	63.6	dBA
Leq	48.9	dBA
L01	61.7	dBA
L10	50.1	dBA
L50	45.1	dBA
L90	41.1	dBA
LC-A	9.5	dBA

Lmax	57.9	dBA
Leq	46.8	dBA
L01	56.2	dBA
L10	50.1	dBA
L50	44	dBA
L90	41.1	dBA
LC-A	9.1	dBA

Lmax	58.8	dBA
Leq	46.3	dBA
L01	56.7	dBA
L10	47.4	dBA
L50	43.2	dBA
L90	40	dBA
LC-A	10.9	dBA

Met Data		
WS at Ground	2.1	m/s
WS at Hub	7.4	m/s
WS at CGAS	7.7	m/s
WD at Hub	173	degrees
WD at CGAS	170	degrees
BP	30.11	in
Humidity	55.4	%
Temp	70	degr F

Broadband Impact Analysis

161 Black Smith Shop Road			
Date: 12 June 12			
Time: 1:03 pm			
Run #	mm:ss	dB(A)	
1	1:05	41	
1	1:10	41.6	
1	1:15	41.5	
1	1:20	41	
1	1:25	42.8	
1	1:30	43.1	
1	1:35	43.7	
1	1:40	43.1	
1	1:45	42.3	
1	1:50	40.8	
1	1:55	42	
1	2:00	42.4	
1	2:05	43.3	
1	2:10	44.4	Lmax
1	2:15	44.2	
1	2:20	44.1	
1	2:25	45.9	x
1	2:30	45.6	x
1	2:35	45	x
1	2:40	45.5	x
1	2:45	45.7	x
1	2:50	44.5	x
1	2:55	46.3	x
1	3:00	44.5	x
1	3:05	44.7	x
1	3:10	43.8	x
1	3:15	46.1	x
1	3:20	47.5	x
1	3:25	46.5	x
1	3:30	45.4	x
1	3:35	43.5	x
1	3:40	42.8	
1	3:45	42	
1	3:50	41.5	
1	3:55	42	
1	4:00	41	
1	4:05	40.3	
1	4:10	40.6	
1	4:15	40	
1	4:20	39.9	
1	4:25	40	
1	4:30	40.8	
1	4:35	41.2	
1	4:40	43.9	
1	4:45	43.9	
1	4:50	43.7	x
1	4:55	45.9	x
1	5:00	45.9	x
1	5	42	x
1	10	43	x
1	15	44.5	x
1	20	45.6	x
1	25	44.9	x
1	30	43.3	

161 Black Smith Shop Road			
Date: 12 June 12			
Time: 1:21 pm			
Run #	mm:ss	dB(A)	
2	1:05	47.1	x
2	1:10	43.8	x
2	1:15	42.5	
2	1:20	42.6	
2	1:25	43	
2	1:30	42.7	
2	1:35	41.6	
2	1:40	40.2	
2	1:45	41.1	
2	1:50	41.2	
2	1:55	44	x
2	2:00	43.3	x
2	2:05	43.2	x
2	2:10	41.1	
2	2:15	41.4	
2	2:20	43.5	
2	2:25	43.9	
2	2:30	42.3	
2	2:35	41.8	
2	2:40	40.8	
2	2:45	40.5	
2	2:50	40.8	
2	2:55	40.5	
2	3:00	40.8	
2	3:05	41.1	
2	3:10	41.7	
2	3:15	42.6	
2	3:20	43.2	
2	3:25	43.6	
2	3:30	43	
2	3:35	43.2	
2	3:40	44.5	Lmax
2	3:45	47.3	x
2	3:50	47.3	x
2	3:55	47.9	x
2	4:00	46.4	x
2	4:05	47.1	x
2	4:10	54.1	x
2	4:15	46.3	x
2	4:20	43.6	
2	4:25	42.3	
2	4:30	41.3	
2	4:35	41.1	
2	4:40	41.1	
2	4:45	41.9	
2	4:50	44.3	
2	4:55	43.5	
2	5:00	43	
2	5	42.4	
2	10	42.1	
2	15	42.7	
2	20	42.7	
2	25	43.8	
2	30	43.5	

161 Black Smith Shop Road			
Date: 12 June 12			
Time: 1:30 pm			
Run #	mm:ss	dB(A)	
3	1:05	45	x
3	1:10	45.8	x
3	1:15	48.4	x
3	1:20	46.6	x
3	1:25	44.8	x
3	1:30	48	x
3	1:35	45.6	x
3	1:40	46.7	x
3	1:45	44.1	x
3	1:50	49.7	x
3	1:55	45.8	x
3	2:00	44.7	x
3	2:05	42.7	
3	2:10	42.6	
3	2:15	46.2	x
3	2:20	45.3	x
3	2:25	43.7	x
3	2:30	42.2	
3	2:35	41.5	
3	2:40	41.6	
3	2:45	41.1	
3	2:50	41.5	
3	2:55	42.1	
3	3:00	42.3	
3	3:05	41.9	
3	3:10	43.1	
3	3:15	44.6	Lmax
3	3:20	42.9	
3	3:25	42.5	
3	3:30	42.4	
3	3:35	45.5	x
3	3:40	44.8	x
3	3:45	45	x
3	3:50	48	x
3	3:55	46.4	x
3	4:00	45.4	x
3	4:05	41.4	
3	4:10	42.6	
3	4:15	41.4	
3	4:20	43.1	
3	4:25	41.3	
3	4:30	41.3	
3	4:35	41.2	
3	4:40	42.8	
3	4:45	40	
3	4:50	40.7	
3	4:55	40.6	
3	5:00	40.7	x
3	5	45.5	x
3	10	44.7	x
3	15	46.5	x
3	20	47.2	x
3	25	49.4	x
3	30	46	x

Broadband Impact Analysis

1	35	42.9	2	35	43.1		3	35	44	x
1	40	42.7	2	40	43.8		3	40	44.2	x
1	45	43	2	45	44.5	x	3	45	44.6	x
1	50	43.2	2	50	44.3	x	3	50	45.1	x
1	55	43	2	55	47.1	x	3	55	44.2	x
1	60	44	2	60	51.3	x	3	60	44.4	x

Lmax (Avg)	**44.5**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)								
Lmax	48	dBA	Lmax	54.1	dBA	Lmax	50.6	dBA
Leq	43.9	dBA	Leq	44.5	dBA	Leq	44.7	dBA
L01	47.1	dBA	L01	52.3	dBA	L01	49.5	dBA
L10	45.7	dBA	L10	47.2	dBA	L10	47.1	dBA
L50	43.1	dBA	L50	42.8	dBA	L50	43.9	dBA
L90	40.8	dBA	L90	40.9	dBA	L90	41.1	dBA
LC-A	12.4	dBA	LC-A	10.9	dBA	LC-A	12.4	dBA

Met Data		
WS at Ground	2.5	m/s
WS at Hub	6.5	m/s
WS at CGAS	7.7	m/s
WD at Hub	180	degrees
WD at CGAS	170	degrees
BP	30.13	In
Humidity	59	%
Temp	68	degr F

Broadband Impact Analysis

821 W Falmouth Hwy			
Date: 12 Jun 12			
Time: 12:20 pm			
Run #	mm:ss	dB(A)	
1	5	50.7	
1	10	48.5	
1	15	52.3	
1	20	59.1	x
1	25	54.4	x
1	30	47.2	
1	35	54.2	x
1	40	53	
1	45	51.7	
1	50	53.9	x
1	55	55.8	x
1	60	51.6	x
1	1:05	55.2	x
1	1:10	55.3	x
1	1:15	54.2	
1	1:20	54.3	
1	1:25	51.9	
1	1:30	54.9	
1	1:35	55.3	Lmax1
1	1:40	53.6	
1	1:45	54.6	
1	1:50	52.5	
1	1:55	51.1	
1	2:00	51.1	
1	2:05	47.8	
1	2:10	53.3	
1	2:15	56.5	x
1	2:20	54	x
1	2:25	53.1	
1	2:30	53.5	
1	2:35	53.5	
1	2:40	54	
1	2:45	55.9	x
1	2:50	54.1	x
1	2:55	54	
1	3:00	53.5	
1	3:05	50.7	
1	3:10	56.5	x
1	3:15	51.9	
1	3:20	49.7	
1	3:25	50	
1	3:30	49.2	
1	3:35	50.9	
1	3:40	52.1	x
1	3:45	58.8	x
1	3:50	52.1	
1	3:55	50	
1	4:00	57.3	x
1	4:05	58.8	x
1	4:10	52.9	x
1	4:15	50.8	

821 W Falmouth Hwy			
Date: 12 Jun 12			
Time: 12:29 pm			
Run #	mm:ss	dB(A)	
2	5	50.9	
2	10	54.9	
2	15	51	
2	20	50.3	
2	25	53.7	
2	30	47.5	
2	35	48.4	
2	40	55.5	x
2	45	53.7	x
2	50	51.6	
2	55	53	
2	60	54.9	
2	1:05	55.4	x
2	1:10	55.8	x
2	1:15	53	
2	1:20	53.8	
2	1:25	51	
2	1:30	54	
2	1:35	58.1	x
2	1:40	52.4	
2	1:45	53.1	
2	1:50	50.5	
2	1:55	53.9	
2	2:00	56.5	x
2	2:05	55.5	Lmax2
2	2:10	55.7	x
2	2:15	56.6	x
2	2:20	52.3	
2	2:25	48.7	
2	2:30	46.8	
2	2:35	46.9	
2	2:40	53	
2	2:45	54.6	
2	2:50	52.8	
2	2:55	53.7	
2	3:00	52.7	
2	3:05	53.2	
2	3:10	56.6	x
2	3:15	52.4	
2	3:20	49.3	
2	3:25	54.2	
2	3:30	51.8	
2	3:35	51.8	
2	3:40	50.2	
2	3:45	60.3	x
2	3:50	56.6	x
2	3:55	55.2	x
2	4:00	52.7	
2	4:05	47.6	
2	4:10	52.1	
2	4:15	53.5	

821 W Falmouth Hwy			
Date: 12 Jun 12			
Time: 12:35 pm			
Run #	mm:ss	dB(A)	
3	5	53	
3	10	51.6	
3	15	47.5	
3	20	52	
3	25	55.8	Lmax3
3	30	54.4	
3	35	55.7	
3	40	54.4	
3	45	52.8	
3	50	55	
3	55	53.5	
3	60	50.8	
3	1:05	52.4	
3	1:10	48.9	
3	1:15	47.3	
3	1:20	47.8	
3	1:25	52.2	
3	1:30	54.2	
3	1:35	50.5	
3	1:40	52.8	
3	1:45	53.8	
3	1:50	52.9	
3	1:55	55.7	
3	2:00	59.6	x
3	2:05	56.4	x
3	2:10	54	
3	2:15	56.2	x
3	2:20	55.1	x
3	2:25	53	
3	2:30	54	
3	2:35	49.8	
3	2:40	52.2	
3	2:45	60.5	x
3	2:50	56.6	x
3	2:55	55.9	x
3	3:00	55.8	x
3	3:05	56.2	x
3	3:10	54.4	x
3	3:15	56.3	x
3	3:20	56	x
3	3:25	53.8	
3	3:30	50.7	
3	3:35	53.3	
3	3:40	54.4	
3	3:45	54.5	
3	3:50	53.3	
3	3:55	52.1	
3	4:00	53.2	
3	4:05	52.7	
3	4:10	61.1	x
3	4:15	56.3	x

Broadband Impact Analysis

1	4:20	51	
1	4:25	50.9	
1	4:30	54.5	
1	4:35	56.6	x
1	4:40	54.1	x
1	4:45	50.2	
1	4:50	54.1	
1	4:55	52.4	
1	5:00	53.2	

2	4:20	52.5	
2	4:25	50.2	
2	4:30	51.8	
2	4:35	53.1	
2	4:40	52.9	
2	4:45	50	
2	4:50	52	
2	4:55	56.2	x
2	5:00	56.3	x

3	4:20	53.7
3	4:25	54.8
3	4:30	51.5
3	4:35	49.6
3	4:40	49.4
3	4:45	54.5
3	4:50	54.4
3	4:55	53.6
3	5:00	51.5

Lmax (Avg)	**55.5**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	60.3	dBA
Leq	53.8	dBA
L01	59.4	dBA
L10	56.1	dBA
L50	53.1	dBA
L90	49.7	dBA
LC-A	10.4	dBA

Lmax	61.5	dBA
Leq	53.8	dBA
L01	60.1	dBA
L10	56	dBA
L50	53.1	dBA
L90	49.1	dBA
LC-A	13.2	dBA

Lmax	61.3	dBA
Leq	54.3	dBA
L01	60.4	dBA
L10	56.2	dBA
L50	53.6	dBA
L90	49.7	dBA
LC-A	10.2	dBA

Met Data		
WS at Ground	2	m/s
WS at Hub	7.3	m/s
WS at CGAS	8.2	m/s
WD at Hub	185	degrees
WD at CGAS	170	degrees
BP	30.14	in
Humidity	57.2	%
Temp	66	degr F

Broadband Ambient Analysis (Background)

211 Blacksmith Shop Rd			
Date: 12 Jun 12			
Time: 3:24 pm			
Run #	mm:ss	dB(A)	
1	1:05	47.2	
1	1:10	44.4	
1	1:15	43.4	
1	1:20	44.3	
1	1:25	45.5	
1	1:30	44.5	
1	1:35	44.8	
1	1:40	46.2	
1	1:45	45.7	
1	1:50	43.7	
1	1:55	41.6	
1	2:00	40.3	
1	2:05	40.2	
1	2:10	41.2	
1	2:15	42	
1	2:20	45.2	
1	2:25	46	
1	2:30	46	
1	2:35	43.3	
1	2:40	44.9	
1	2:45	45.4	
1	2:50	45.5	
1	2:55	44.2	
1	3:00	42.9	
1	3:05	45.6	
1	3:10	51.5	x
1	3:15	49	x
1	3:20	46	
1	3:25	45.6	
1	3:30	42.3	
1	3:35	41.9	
1	3:40	48.7	
1	3:45	48.4	
1	3:50	41.7	
1	3:55	42.4	
1	4:00	46.2	
1	4:05	51.3	x
1	4:10	49.7	x
1	4:15	45.1	
1	4:20	48	
1	4:25	49.6	x
1	4:30	46.3	
1	4:35	50.8	x
1	4:40	51.5	x
1	4:45	42.7	
1	4:50	45.7	
1	4:55	47.6	
1	5:00	45	
1	5	42.5	
1	10	40.4	
1	15	43.8	

211 Blacksmith Shop Rd			
Date: 12 Jun 12			
Time: 3:33 pm			
Run #	mm:ss	dB(A)	
2	1:05	45.3	
2	1:10	45.2	
2	1:15	45.7	
2	1:20	44.3	
2	1:25	43.6	
2	1:30	44	
2	1:35	43.7	
2	1:40	43.6	
2	1:45	47.2	
2	1:50	46.4	
2	1:55	42.9	
2	2:00	48.9	x
2	2:05	48.7	x
2	2:10	51.9	x
2	2:15	48.2	
2	2:20	50.6	x
2	2:25	47	
2	2:30	46.3	
2	2:35	44.9	
2	2:40	45.2	
2	2:45	43.6	
2	2:50	41.4	
2	2:55	42.5	L90
2	3:00	43.1	
2	3:05	43.6	
2	3:10	44.4	
2	3:15	47.5	
2	3:20	44.1	
2	3:25	43.9	
2	3:30	43.8	
2	3:35	44.1	
2	3:40	44.4	
2	3:45	45.2	
2	3:50	48.2	
2	3:55	49.1	x
2	4:00	48.7	x
2	4:05	51.3	x
2	4:10	51.3	x
2	4:15	46.8	
2	4:20	44.8	
2	4:25	43.4	
2	4:30	45.2	
2	4:35	45.2	
2	4:40	43.2	
2	4:45	42.4	
2	4:50	44.7	
2	4:55	48.3	
2	5:00	47.2	
2	5	49.5	x
2	10	47.6	
2	15	46.6	

211 Blacksmith Shop Rd			
Date: 12 Jun 12			
Time:			
Run #	mm:ss	dB(A)	
3	1:05	51.2	x
3	1:10	54.8	x
3	1:15	47.6	
3	1:20	49.1	
3	1:25	48.8	
3	1:30	48.5	
3	1:35	47.2	
3	1:40	45	
3	1:45	43.4	
3	1:50	43.5	
3	1:55	42.4	
3	2:00	43.5	
3	2:05	46.6	
3	2:10	56.1	x
3	2:15	51.2	x
3	2:20	46.7	
3	2:25	45.6	
3	2:30	45.4	
3	2:35	47.4	
3	2:40	47.3	
3	2:45	45.3	
3	2:50	42.7	
3	2:55	45.7	
3	3:00	43.8	
3	3:05	43	
3	3:10	41.7	
3	3:15	45	
3	3:20	51.1	x
3	3:25	49.9	x
3	3:30	47.3	
3	3:35	47.8	
3	3:40	44.6	
3	3:45	46.3	
3	3:50	48.7	x
3	3:55	49.2	x
3	4:00	49.7	x
3	4:05	51.5	x
3	4:10	49.8	x
3	4:15	46.3	
3	4:20	45.7	
3	4:25	48.3	
3	4:30	43.3	
3	4:35	41.9	
3	4:40	40.5	
3	4:45	40.3	
3	4:50	42.7	
3	4:55	46.2	
3	5:00	47.8	
3	5	52.2	x
3	10	50.2	x
3	15	49.8	x

Broadband Ambient Analysis (Background)

1	20	43.4	
1	25	43.5	
1	30	45.3	
1	35	43.5	
1	40	43.8	
1	45	43.6	
1	50	50	x
1	55	50.9	x
1	60	50.9	x

2	20	47.8	
2	25	47.6	
2	30	47.1	
2	35	48.5	
2	40	50.2	x
2	45	50.1	x
2	50	45.7	
2	55	46.3	
2	60	45.7	

3	20	49.3	x
3	25	49.6	x
3	30	47.2	
3	35	44.8	
3	40	44.9	
3	45	46	
3	50	50.8	x
3	55	51.8	x
3	60	50.1	x

L90	42.5	dBA

Sampler Summary Data (Does NOT Exclude interference sound)

Lmax	53.1	dBA
Leq	46.3	dBA
L01	52.3	dBA
L10	49.9	dBA
L50	44.8	dBA
L90	41.7	dBA
LC-A	16.4	dBA

Lmax	61.9	dBA
Leq	47.4	dBA
L01	53.8	dBA
L10	49.8	dBA
L50	45.7	dBA
L90	43.2	dBA
LC-A	16.8	dBA

Lmax	57.5	dBA
Leq	48.8	dBA
L01	56	dBA
L10	51	dBA
L50	47.1	dBA
L90	42.6	dBA
LC-A	12.7	dBA

Met Data

WS at Ground	2.6	m/s
WS at Hub	6.1	m/s
WS at CGAS	6.1	m/s
WD at Hub	170	degrees
WD at CGAS	180	degrees
BP	30.1	in
Humidity	57.2	%
Temp	68	degr F

Broadband Ambient Analysis (Background)

821 W Falmouth Hwy			
Date: 12 Jun 12			
Time: 4:03 pm			
Run #	mm:ss	dB(A)	
1	5	51.4	
1	10	52.3	
1	15	51.3	
1	20	48.6	
1	25	47.6	
1	30	48.9	
1	35	49.8	
1	40	50.7	
1	45	49.3	
1	50	48.5	
1	55	54.8	
1	60	52.9	
1	1:05	51.6	
1	1:10	53	
1	1:15	52.8	
1	1:20	51.9	
1	1:25	49.5	
1	1:30	50.3	
1	1:35	48.9	
1	1:40	46.1	
1	1:45	49.8	
1	1:50	50.9	
1	1:55	50.5	
1	2:00	47	
1	2:05	49	
1	2:10	53	
1	2:15	54.9	
1	2:20	50.6	
1	2:25	50.3	
1	2:30	50	
1	2:35	50.7	
1	2:40	60.7	x
1	2:45	57.5	x
1	2:50	49.1	
1	2:55	47.6	
1	3:00	49.4	
1	3:05	49.4	
1	3:10	51.4	
1	3:15	51.2	
1	3:20	51	
1	3:25	51.8	
1	3:30	53.1	
1	3:35	53.7	
1	3:40	53.2	
1	3:45	52.8	
1	3:50	50.7	
1	3:55	45.4	
1	4:00	47.1	
1	4:05	48.8	
1	4:10	49.8	
1	4:15	50.1	
1	4:20	50.5	

821 W Falmouth Hwy			
Date: 12 Jun 12			
Time: 4:10 pm			
Run #	mm:ss	dB(A)	
2	5	50.7	
2	10	52	
2	15	48.9	L90
2	20	52.6	
2	25	51.9	
2	30	52.2	
2	35	55.2	
2	40	52.6	
2	45	49.9	
2	50	51.3	
2	55	50.8	
2	60	49.9	
2	1:05	50.9	
2	1:10	50.9	
2	1:15	54.1	
2	1:20	52.7	
2	1:25	52.8	
2	1:30	51.5	
2	1:35	53	
2	1:40	50.5	
2	1:45	52	
2	1:50	52.2	
2	1:55	55.8	
2	2:00	53.5	
2	2:05	51.7	
2	2:10	51.4	
2	2:15	52.1	
2	2:20	53.8	
2	2:25	55.4	
2	2:30	58.7	x
2	2:35	56.5	
2	2:40	65.6	x
2	2:45	58.9	x
2	2:50	50.8	
2	2:55	51.3	
2	3:00	51.3	
2	3:05	51.4	
2	3:10	51.4	
2	3:15	54.6	
2	3:20	50.7	
2	3:25	54	
2	3:30	52.7	
2	3:35	51.1	
2	3:40	52.8	
2	3:45	52.3	
2	3:50	51.1	
2	3:55	53.3	
2	4:00	55.8	
2	4:05	54.4	
2	4:10	51.6	
2	4:15	47.6	
2	4:20	52.2	

821 W Falmouth Hwy			
Date: 12 Jun 12			
Time: 4:17 pm			
Run #	mm:ss	dB(A)	
3	5	52.3	
3	10	53.1	
3	15	50.7	
3	20	46.7	
3	25	47.3	
3	30	48.6	
3	35	49.9	
3	40	52.6	
3	45	63.2	x
3	50	58.7	x
3	55	58.8	x
3	60	52.1	
3	1:05	49.6	
3	1:10	50.2	
3	1:15	52.1	
3	1:20	55.7	
3	1:25	50.9	
3	1:30	49	
3	1:35	52.9	
3	1:40	51.4	
3	1:45	50.8	
3	1:50	54.5	
3	1:55	52.6	
3	2:00	53.8	
3	2:05	53.6	
3	2:10	52.8	
3	2:15	51.5	
3	2:20	52.7	
3	2:25	49.5	
3	2:30	55.1	
3	2:35	54.4	
3	2:40	53.3	
3	2:45	50.6	
3	2:50	50	
3	2:55	50.2	
3	3:00	51.9	
3	3:05	55.2	
3	3:10	52.9	
3	3:15	50.3	
3	3:20	51.3	
3	3:25	50.7	
3	3:30	54.2	
3	3:35	50.9	
3	3:40	49.2	
3	3:45	51.4	
3	3:50	52.2	
3	3:55	53.2	
3	4:00	54.2	
3	4:05	52.1	
3	4:10	51.6	
3	4:15	53.2	
3	4:20	52.7	

Broadband Ambient Analysis (Background)

1	4:25	47.5
1	4:30	47.3
1	4:35	47.9
1	4:40	49.6
1	4:45	51
1	4:50	50.3
1	4:55	57.5
1	5:00	53.5

2	4:25	53.7
2	4:30	50.8
2	4:35	51.1
2	4:40	51.2
2	4:45	53.2
2	4:50	50
2	4:55	48.7
2	5:00	52.8

3	4:25	52.7
3	4:30	52.8
3	4:35	51.3
3	4:40	53.5
3	4:45	53.2
3	4:50	51.5
3	4:55	51.2
3	5:00	49.7

L90	48.9	DBA

Sampler Summary Data (Does NOT Exclude interference sound)

Lmax	62.5	dBA
Leq	51.7	dBA
L01	61.2	dBA
L10	58.7	dBA
L50	50	dBA
L90	49.8	dBA
LC-A	9.7	dBA

Lmax	68.1	dBA
Leq	53.6	dBA
L01	66.7	dBA
L10	63.3	dBA
L50	51.4	dBA
L90	49.4	dBA
LC-A	9.4	dBA

Lmax	65.1	dBA
Leq	53.3	dBA
L01	63.8	dBA
L10	60.5	dBA
L50	49.6	dBA
L90	47.9	dBA
LC-A	10.2	dBA

Met Data

WS at Ground	2	m/s
WS at Hub	7.7	m/s
WS at CGAS	7.3	m/s
WD at Hub	173	degrees
WD at CGAS	180	degrees
BP	30.19	In
Humidity	57.2	%
Temp	68	degr F

Broadband Impact Analysis

260 Fire Tower Road			
Date: 20 Jun 12			
Time: 12:19 pm			
Run #	mm:ss	dB(A)	
1	5	46	
1	10	44.8	
1	15	44.6	
1	20	45.1	
1	25	43	
1	30	44.8	
1	35	44.5	
1	40	47.8	x
1	45	47.5	x
1	50	47.3	x
1	55	45.9	
1	60	45.9	
1	1:05	45.1	
1	1:10	45.4	
1	1:15	52.7	x
1	1:20	53.4	x
1	1:25	46	
1	1:30	43.9	
1	1:35	43.8	
1	1:40	44.3	
1	1:45	45.4	
1	1:50	44.8	
1	1:55	44.7	
1	2:00	43.6	
1	2:05	43.9	
1	2:10	43.6	
1	2:15	47.3	x
1	2:20	53.5	x
1	2:25	49.3	x
1	2:30	44.7	x
1	2:35	44.8	x
1	2:40	43.6	x
1	2:45	43.2	x
1	2:50	43.6	x
1	2:55	44.1	x
1	3:00	44.1	x
1	3:05	43	x
1	3:10	42.9	
1	3:15	42.8	
1	3:20	42.7	
1	3:25	43.1	
1	3:30	42.7	
1	3:35	42.3	
1	3:40	42.7	
1	3:45	42.4	
1	3:50	43.9	
1	3:55	44.5	
1	4:00	44.5	
1	4:05	44.3	
1	4:10	44.7	
1	4:15	46.2	Lmax 1

260 Fire Tower Road			
Date: 20 Jun 12			
Time: 12:26 pm			
Run #	mm:ss	dB(A)	
2	5	48.2	x
2	10	52.6	x
2	15	47.8	x
2	20	45.4	
2	25	44.2	
2	30	44	
2	35	43.9	
2	40	44.1	
2	45	44.1	
2	50	44.9	
2	55	44.5	
2	60	44	
2	1:05	44.9.	
2	1:10	44.6	
2	1:15	44.7	
2	1:20	45.6	
2	1:25	43.6	
2	1:30	43.9	
2	1:35	43.2	
2	1:40	42.7	
2	1:45	43	
2	1:50	43	
2	1:55	43.1	
2	2:00	43.5	
2	2:05	43.9	
2	2:10	52.7	x
2	2:15	51.9	x
2	2:20	45.4	
2	2:25	45.5	Lmax 2
2	2:30	44.5	
2	2:35	44	
2	2:40	43.7	
2	2:45	44.4	
2	2:50	43.6	
2	2:55	44.1	
2	3:00	44.7	
2	3:05	44.3	
2	3:10	43.5	
2	3:15	44.8	
2	3:20	44.5	
2	3:25	44.6	
2	3:30	45.3	
2	3:35	44.9	
2	3:40	44.5	
2	3:45	44.2	
2	3:50	44.1	
2	3:55	44.8	
2	4:00	44.5	
2	4:05	50.7	x
2	4:10	50.1	x
2	4:15	44.4	

260 Fire Tower Road			
Date: 20 Jun 12			
Time: 12:33 pm			
Run #	mm:ss	dB(A)	
3	5	44.1	
3	10	44.5	
3	15	47.1	x
3	20	47.8	x
3	25	46.1	x
3	30	46.6	x
3	35	45.8	
3	40	45.3	
3	45	44.8	
3	50	45.1	
3	55	44.9	
3	60	45.4	
3	1:05	45.3	
3	1:10	45.3	
3	1:15	45.1	
3	1:20	44.9	
3	1:25	44.7	
3	1:30	45	
3	1:35	45.2	
3	1:40	44.1	
3	1:45	45.4	
3	1:50	46.2	Lmax 3
3	1:55	45.8	
3	2:00	45.6	
3	2:05	45.2	
3	2:10	43.7	
3	2:15	43.5	
3	2:20	43.2	
3	2:25	43.4	
3	2:30	43.6	
3	2:35	43.8	
3	2:40	44	
3	2:45	43.6	
3	2:50	43.6	
3	2:55	43.9	
3	3:00	43.7	
3	3:05	44.1	
3	3:10	43.8	
3	3:15	43.4	
3	3:20	44	
3	3:25	43.9	
3	3:30	44.1	
3	3:35	43.8	
3	3:40	44.1	
3	3:45	44.2	
3	3:50	44.3	
3	3:55	45	
3	4:00	44.2	
3	4:05	44	
3	4:10	43.6	
3	4:15	43.5	

Broadband Impact Analysis

1	4:20	46	
1	4:25	46.3	
1	4:30	45	x
1	4:35	45	x
1	4:40	44.2	
1	4:45	46	x
1	4:50	46.3	x
1	4:55	44.7	
1	5:00	46	

2	4:20	43.5	
2	4:25	43.1	
2	4:30	43.3	
2	4:35	43.9	
2	4:40	43.4	
2	4:45	43.2	
2	4:50	42.8	
2	4:55	43.3	
2	5:00	43.5	

3	4:20	44	
3	4:25	44	
3	4:30	44.7	
3	4:35	45.7	
3	4:40	45.4	
3	4:45	46.7	x
3	4:50	48	x
3	4:55	50.5	x
3	5:00	52.9	x

Lmax	**46.0**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)

Lmax	55.4	dBA
Leq	46.1	dBA
L01	54.1	dBA
L10	47.4	dBA
L50	44.6	dBA
L90	42.9	dBA
LC-A	10.9	dBA

Lmax	53.2	dBA
Leq	45.8	dBA
L01	52.9	dBA
L10	47.7	dBA
L50	44.1	dBA
L90	43.1	dBA
LC-A	10.9	dBA

Lmax	54.8	dBA
Leq	45.2	dBA
L01	53.1	dBA
L10	46.7	dBA
L50	44.5	dBA
L90	43.4	dBA
LC-A	10.6	dBA

Met Data

WS at Ground	< 1	m/s
WS at Hub	9.7	m/s
WS at CGAS	6.7	m/s
WD at Hub	248	degrees
WD at CGAS	250	degrees
BP	29.96	in
Humidity	71.6	%
Temp	82.4	degr F

Broadband Impact Analysis

211 Blacksmith Shop Rd			
Date: 20 Jun 12			
Time: 1:06 pm			
Run #	mm:ss	dB(A)	
1	5	44.2	
1	10	43.9	
1	15	48.1	
1	20	48.2	
1	25	45.3	
1	30	45.2	
1	35	46.9	x
1	40	49.1	x
1	45	48.9	x
1	50	48.7	x
1	55	48.8	x
1	60	47.3	
1	1:05	48.6	
1	1:10	47.4	
1	1:15	47.2	
1	1:20	48.2	
1	1:25	48.6	
1	1:30	51	x
1	1:35	50.3	x
1	1:40	49.8	x
1	1:45	50.6	x
1	1:50	50.2	x
1	1:55	48.7	
1	2:00	49.1	
1	2:05	48.9	
1	2:10	45.8	
1	2:15	45.9	
1	2:20	45.6	
1	2:25	47.7	
1	2:30	47.7	
1	2:35	48	
1	2:40	48.3	
1	2:45	47.8	
1	2:50	47	
1	2:55	47.9	
1	3:00	51.9	x
1	3:05	51.3	x
1	3:10	49.8	Lmax 1
1	3:15	48.4	
1	3:20	46.6	
1	3:25	47.8	
1	3:30	49.1	x
1	3:35	53.7	x
1	3:40	53.1	x
1	3:45	54.8	x
1	3:50	54.4	x
1	3:55	50.8	x
1	4:00	49.2	x
1	4:05	46.7	
1	4:10	46.4	
1	4:15	50	x

211 Blacksmith Shop Rd			
Date: 20 Jun 12			
Time: 1:12 pm			
Run #	mm:ss	dB(A)	
2	5	50.3	x
2	10	46	
2	15	45.7	
2	20	45	
2	25	44.7	
2	30	43.3	
2	35	44.9	
2	40	45	
2	45	52.8	x
2	50	49.9	x
2	55	49.9	x
2	60	47.3	
2	1:05	49.8	
2	1:10	47.3	
2	1:15	46.9	
2	1:20	48.3	
2	1:25	51.1	x
2	1:30	51.4	x
2	1:35	52	x
2	1:40	49.8	x
2	1:45	48.8	
2	1:50	48.4	
2	1:55	47.5	
2	2:00	51.5	x
2	2:05	46.2	
2	2:10	48.6	
2	2:15	45.9	t
2	2:20	45.6	
2	2:25	48.4	
2	2:30	47.2	
2	2:35	48.4	
2	2:40	49.9	Lmax 2
2	2:45	49.9	
2	2:50	47.2	
2	2:55	46.5	
2	3:00	46.5	
2	3:05	46.1	
2	3:10	46.3	
2	3:15	45.8	
2	3:20	46.6	
2	3:25	47.2	
2	3:30	46.9	
2	3:35	46.9	
2	3:40	46.2	
2	3:45	46.4	
2	3:50	44.6	
2	3:55	44.9	
2	4:00	44.8	
2	4:05	44.1	
2	4:10	46.2	
2	4:15	45.3	

211 Blacksmith Shop Rd			
Date: 20 Jun 12			
Time: 1:19 pm			
Run #	mm:ss	dB(A)	
3	5	47.2	
3	10	46.9	
3	15	46.6	
3	20	45.7	
3	25	45.4	
3	30	45.9	
3	35	46.1	
3	40	46.4	
3	45	47.1	
3	50	47.9	
3	55	46.2	
3	60	46.4	
3	1:05	46.1	
3	1:10	46.6	
3	1:15	46.8	
3	1:20	46.2	
3	1:25	46.3	
3	1:30	45.8	
3	1:35	44.8	
3	1:40	45.6	
3	1:45	45.8	
3	1:50	46.6	
3	1:55	45	
3	2:00	45	
3	2:05	46.9	
3	2:10	48.2	
3	2:15	49.3	x
3	2:20	51	x
3	2:25	51.8	x
3	2:30	50.4	x
3	2:35	49.2	x
3	2:40	47.8	
3	2:45	48.4	
3	2:50	51.1	x
3	2:55	52.3	x
3	3:00	47.6	
3	3:05	46.7	
3	3:10	46.9	
3	3:15	47.1	
3	3:20	47.6	
3	3:25	48	
3	3:30	48.4	
3	3:35	48.3	
3	3:40	48.3	
3	3:45	47.3	
3	3:50	47.2	
3	3:55	48.6	
3	4:00	47.9	
3	4:05	45.4	
3	4:10	44.6	
3	4:15	47.6	t

Broadband Impact Analysis

1	4:20	51.9	x
1	4:25	50.7	x
1	4:30	48.8	
1	4:35	48.9	
1	4:40	48.9	
1	4:45	48.4	
1	4:50	46.5	
1	4:55	47	
1	5:00	48.3	

2	4:20	49.1	
2	4:25	49.3	
2	4:30	50.5	x
2	4:35	48.2	
2	4:40	53.8	x
2	4:45	46.6	
2	4:50	47.3	
2	4:55	46.2	
2	5:00	45.6	

3	4:20	45.7	
3	4:25	45	
3	4:30	46.2	
3	4:35	45.4	
3	4:40	46.7	
3	4:45	46.6	
3	4:50	47.1	
3	4:55	46.8	
3	5:00	48.7	Lmax 3

Lmax	**49.5**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	57.4	dBA
Leq	49.2	dBA
L01	54.8	dBA
L10	51.2	dBA
L50	48.5	dBA
L90	45.6	dBA
LC-A	12.8	dBA

Lmax	56	dBA
Leq	48.2	dBA
L01	53.9	dBA
L10	50.9	dBA
L50	46.8	dBA
L90	44.7	dBA
LC-A	11.4	dBA

Lmax	47.6	dBA
Leq	53.9	dBA
L01	52.3	dBA
L10	49.2	dBA
L50	46.9	dBA
L90	45.3	dBA
LC-A	10.7	dBA

Met Data		
WS at Ground	2.5	m/s
WS at Hub	8.6	m/s
WS at CGAS	6.7	m/s
WD at Hub	247	degrees
WD at CGAS	240	degrees
BP	29.94	in
Humidity	71.6	%
Temp	82.4	degr F

Broadband Impact Analysis

161 Blacksmith Shop Rd			
Date: 21 June 12			
Time: 1:39 pm			
Run #	mm:ss	dB(A)	
1	5	45	
1	10	43.9	
1	15	45.4	
1	20	45.5	
1	25	47.2	Lmax 1
1	30	46.6	
1	35	46.6	
1	40	46.7	
1	45	47	
1	50	46.6	
1	55	45	
1	60	51.3	x
1	1:05	48.8	x
1	1:10	45.9	
1	1:15	45.1	
1	1:20	44.8	
1	1:25	45.4	
1	1:30	45.3	
1	1:35	45.2	
1	1:40	45.1	
1	1:45	46.5	
1	1:50	45.7	
1	1:55	47.1	
1	2:00	45.4	
1	2:05	45.1	
1	2:10	45.8	
1	2:15	45.6	
1	2:20	46.1	
1	2:25	50.6	x
1	2:30	48.8	x
1	2:35	45.7	x
1	2:40	47.3	x
1	2:45	48.6	x
1	2:50	47.9	x
1	2:55	46.8	
1	3:00	47.1	
1	3:05	46.6	
1	3:10	45.2	
1	3:15	45.7	
1	3:20	45.3	
1	3:25	45.6	
1	3:30	45.2	
1	3:35	46.1	
1	3:40	48.4	x
1	3:45	51.2	x
1	3:50	50.9	x
1	3:55	48.1	x
1	4:00	47.3	x
1	4:05	47.9	x
1	4:10	46.7	
1	4:15	45.6	
1	4:20	45.1	

161 Blacksmith Shop Rd			
Date: 21 June 12			
Time: 1:45 pm			
Run #	mm:ss	dB(A)	
2	5	48.1	x
2	10	48	x
2	15	46.9	
2	20	47.1	
2	25	47.5	
2	30	46.9	
2	35	46.7	
2	40	47.3	
2	45	47.6	Lmax 2
2	50	46.7	
2	55	46.2	
2	60	46.4	
2	1:05	46.3	
2	1:10	49.3	x
2	1:15	47.9	x
2	1:20	46.3	
2	1:25	46.1	
2	1:30	45.8	
2	1:35	45.7	
2	1:40	45.4	
2	1:45	46.4	
2	1:50	48.2	x
2	1:55	47.3	x
2	2:00	46.9	x
2	2:05	46.9	
2	2:10	45.6	
2	2:15	46.3	
2	2:20	52.2	x
2	2:25	52.7	x
2	2:30	47.6	x
2	2:35	47.9	x
2	2:40	47.8	x
2	2:45	48.4	x
2	2:50	47	x
2	2:55	46.4	
2	3:00	46.4	
2	3:05	46	
2	3:10	46.4	
2	3:15	48.5	x
2	3:20	50	x
2	3:25	48.6	x
2	3:30	51.5	x
2	3:35	49.5	x
2	3:40	46.4	x
2	3:45	46.6	x
2	3:50	48.1	x
2	3:55	50.1	x
2	4:00	50	x
2	4:05	51.6	x
2	4:10	49.9	x
2	4:15	52.3	x
2	4:20	46.9	x

161 Blacksmith Shop Rd			
Date: 21 June 12			
Time: 1:52 pm			
Run #	mm:ss	dB(A)	
3	5	45.2	
3	10	46.5	
3	15	54.1	x
3	20	51.6	x
3	25	50.6	x
3	30	47.6	
3	35	48.7	
3	40	48.3	
3	45	47.6	
3	50	48.9	
3	55	48.9	
3	60	50.6	x
3	1:05	49.2	x
3	1:10	49.9	x
3	1:15	49.6	
3	1:20	49.7	Lmax 3
3	1:25	48.1	
3	1:30	46.8	
3	1:35	47.3	
3	1:40	50.6	x
3	1:45	51	x
3	1:50	54.6	x
3	1:55	58.7	x
3	2:00	49.6	x
3	2:05	51	x
3	2:10	53.3	x
3	2:15	48.3	
3	2:20	46.2	
3	2:25	45.9	
3	2:30	44.2	
3	2:35	49.8	x
3	2:40	54.1	x
3	2:45	49	x
3	2:50	47.3	
3	2:55	49.3	
3	3:00	49.4	
3	3:05	47.8	
3	3:10	46.9	
3	3:15	47.6	x
3	3:20	49.8	x
3	3:25	47.7	x
3	3:30	46	
3	3:35	44.5	
3	3:40	45	
3	3:45	45.4	
3	3:50	45.4	
3	3:55	45.2	
3	4:00	48.5	
3	4:05	48.4	
3	4:10	48.4	
3	4:15	47.5	
3	4:20	45.9	

Broadband Impact Analysis

1	4:25	44.9	
1	4:30	43.3	
1	4:35	43.1	
1	4:40	43.8	
1	4:45	44.8	
1	4:50	45.9	
1	4:55	46.6	
1	5:00	48.1	x

2	4:25	49.9	x
2	4:30	48.2	x
2	4:35	48.1	x
2	4:40	47.8	x
2	4:45	49.4	x
2	4:50	48.2	x
2	4:55	47.3	
2	5:00	47.1	

3	4:25	45.7	
3	4:30	47.7	
3	4:35	46.8	
3	4:40	46.2	
3	4:45	45.8	
3	4:50	47.2	x
3	4:55	50.7	x
3	5:00	52.3	x

Lmax	48.2	dBA

Sampler Summary Data (Does NOT Exclude interference sound)

Lmax	51.6	dBA
Leq	46.8	dBA
L01	51.1	dBA
L10	48.6	dBA
L50	45.8	dBA
L90	44.6	dBA
LC-A	11.9	dBA

Lmax	57.7	dBA
Leq	48.7	dBA
L01	56.2	dBA
L10	50.8	dBA
L50	47.5	dBA
L90	45.9	dBA
LC-A	13.2	dBA

Lmax	58.8	dBA
Leq	49.7	dBA
L01	57.1	dBA
L10	52.2	dBA
L50	48.2	dBA
L90	45.3	dBA
LC-A	12	dBA

Met Data

WS at Ground	2.5	m/s
WS at Hub	9.6	m/s
WS at CGAS	8.7	m/s
WD at Hub	247	degrees
WD at CGAS	250	degrees
BP	29.94	in
Humidity	71.6	%
Temp	82.4	degr F

Broadband Impact Analysis

124 Ambleside Dr			
Date: 20 Jun 12			
Time: 11:24 am			
Run #	mm:ss	dB(A)	
1	5	53.7	x
1	10	49.8	
1	15	54.5	x
1	20	48.9	
1	25	49.3	
1	30	55	x
1	35	49.4	
1	40	49	
1	45	56.3	x
1	50	50.6	x
1	55	49.2	
1	60	46.2	
1	1:05	46	
1	1:10	49.8	
1	1:15	48.8	
1	1:20	54.4	x
1	1:25	50	
1	1:30	50	
1	1:35	51	
1	1:40	49.8	
1	1:45	50.6	
1	1:50	48.5	
1	1:55	51.9	x
1	2:00	54.7	x
1	2:05	54.5	x
1	2:10	52.4	x
1	2:15	51.3	
1	2:20	50.7	
1	2:25	50.9	
1	2:30	49.7	
1	2:35	50.5	
1	2:40	48.8	
1	2:45	49.8	
1	2:50	50.5	
1	2:55	52.9	x
1	3:00	53.7	x
1	3:05	52.4	
1	3:10	50.3	
1	3:15	52.5	Lmax 1
1	3:20	52.8	x
1	3:25	51.7	x
1	3:30	50.7	t
1	3:35	47.7	t
1	3:40	47.4	t
1	3:45	46.5	
1	3:50	51.8	x
1	3:55	50.2	
1	4:00	49.1	
1	4:05	49	
1	4:10	50.8	
1	4:15	49.5	
1	4:20	48.9	
1	4:25	46.7	
1	4:30	49	

124 Ambleside Dr			
Date: 20 Jun 12			
Time: 11:33 am			
Run #	mm:ss	dB(A)	
2	5	48	
2	10	51.8	x
2	15	56	x
2	20	54	x
2	25	51.8	x
2	30	51.8	x
2	35	49.4	
2	40	47.6	
2	45	50.2	
2	50	49.3	
2	55	48.5	
2	60	54.6	x
2	1:05	54.3	x
2	1:10	47.6	
2	1:15	48.5	
2	1:20	51.2	x
2	1:25	53.6	x
2	1:30	52.9	x
2	1:35	48.8	
2	1:40	47.8	
2	1:45	49.2	
2	1:50	49.1	
2	1:55	48.8	
2	2:00	46.6	
2	2:05	47	
2	2:10	48.9	
2	2:15	47.6	
2	2:20	48	
2	2:25	50.6	x
2	2:30	50.7	x
2	2:35	50.2	
2	2:40	50.6	
2	2:45	50.7	
2	2:50	47.7	
2	2:55	46.8	
2	3:00	53.1	x
2	3:05	49.6	
2	3:10	49.3	
2	3:15	49	
2	3:20	51.5	x
2	3:25	49.7	
2	3:30	48.5	
2	3:35	51.4	Lmax 2
2	3:40	51.3	
2	3:45	50.7	
2	3:50	51.8	x
2	3:55	49.2	
2	4:00	48	
2	4:05	50.2	
2	4:10	50.5	
2	4:15	49.8	
2	4:20	50	
2	4:25	50.7	
2	4:30	51.6	x

124 Ambleside Dr			
Date: 20 Jun 12			
Time: 11:40 am			
Run #	mm:ss	dB(A)	
3	5	53.8	x
3	10	54.1	x
3	15	54	x
3	20	54.3	x
3	25	52.8	x
3	30	52.1	x
3	35	51.6	x
3	40	49.9	
3	45	50.5	
3	50	50.2	
3	55	49.8	
3	60	50.2	
3	1:05	51.3	x
3	1:10	51.9	x
3	1:15	52.8	x
3	1:20	51.4	x
3	1:25	50.9	
3	1:30	48.9	
3	1:35	52.6	Lmax 3
3	1:40	52.6	
3	1:45	51.3	
3	1:50	54	x
3	1:55	54.7	x
3	2:00	53.8	x
3	2:05	50.2	
3	2:10	52	
3	2:15	52.5	
3	2:20	50.5	
3	2:25	48.6	
3	2:30	47.5	
3	2:35	48.7	
3	2:40	52.2	x
3	2:45	51.4	
3	2:50	49.2	
3	2:55	52.5	
3	3:00	51.6	
3	3:05	50.1	
3	3:10	51.7	
3	3:15	54.3	x
3	3:20	53.6	x
3	3:25	54.7	x
3	3:30	53.2	x
3	3:35	49.5	
3	3:40	46.6	
3	3:45	48.3	
3	3:50	50.1	
3	3:55	52.9	x
3	4:00	52.7	x
3	4:05	51	
3	4:10	52.4	
3	4:15	51.7	
3	4:20	50.5	
3	4:25	49.4	
3	4:30	51.4	

Broadband Impact Analysis

1	4:35	50.1	
1	4:40	51.7	x
1	4:45	51.9	x
1	4:50	51	x
1	4:55	49.7	
1	5:00	47.6	

2	4:35	53	x
2	4:40	52.3	x
2	4:45	52.8	x
2	4:50	51.9	x
2	4:55	48.5	
2	5:00	49.1	

3	4:35	49.6	
3	4:40	47.8	
3	4:45	47.3	
3	4:50	51	
3	4:55	53.1	x
3	5:00	52	x

Lmax	**52.2**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	58	dBA
Leq	51.1	dBA
L01	55.7	dBA
L10	53.3	dBA
L50	50.4	dBA
L90	47.5	dBA
LC-A	9.5	dBA

Lmax	57.9	dBA
Leq	50.9	dBA
L01	56.6	dBA
L10	53	dBA
L50	50.1	dBA
L90	47.4	dBA
LC-A	10.9	dBA

Lmax	56.7	dBA
Leq	51.8	dBA
L01	55.7	dBA
L10	54	dBA
L50	51.4	dBA
L90	48.4	dBA
LC-A	9.8	dBA

Met Data		
WS at Ground	2	m/s
WS at Hub	10.6	m/s
WS at CGAS	4.1	m/s
WD at Hub	241	degrees
WD at CGAS	230	degrees
BP	29.99	in
Humidity	69.8	%
Temp	80.6	degr F

Broadband Ambient Analysis (Background)

211 Blacksmith Shop Rd			
Date: 20 June 12			
Time: 2:17 pm			
Run #	mm:ss	dB(A)	
1	5	44.9	
1	10	43.9	
1	15	42.8	
1	20	43.6	
1	25	44.4	
1	30	45.1	
1	35	46.6	
1	40	46.3	
1	45	46.5	
1	50	49.4	
1	55	48	x
1	60	52	x
1	1:05	49.8	x
1	1:10	48.6	x
1	1:15	45.1	
1	1:20	44.9	
1	1:25	45.1	
1	1:30	46.7	
1	1:35	46.5	
1	1:40	46.2	
1	1:45	44.6	
1	1:50	45.2	
1	1:55	45.2	
1	2:00	47	
1	2:05	50	
1	2:10	54.3	x
1	2:15	52.6	x
1	2:20	49.1	
1	2:25	47.6	
1	2:30	46.7	
1	2:35	45.5	
1	2:40	44.7	
1	2:45	44.8	
1	2:50	45.4	
1	2:55	44.2	
1	3:00	45	
1	3:05	46.3	
1	3:10	47.2	
1	3:15	47.7	
1	3:20	49.7	
1	3:25	48.9	
1	3:30	47.1	
1	3:35	45.3	
1	3:40	44.9	
1	3:45	44.4	
1	3:50	44.2	
1	3:55	44.8	
1	4:00	47.5	
1	4:05	49.3	x
1	4:10	49.3	x
1	4:15	49.6	

211 Blacksmith Shop Rd			
Date: 20 June 12			
Time: 2:30 pm			
Run #	mm:ss	dB(A)	
2	5	47.4	
2	10	46.5	
2	15	45.5	
2	20	46.3	
2	25	46.1	
2	30	44.9	
2	35	43.8	
2	40	43.6	
2	45	44	
2	50	42.9	
2	55	42.3	
2	60	44.7	
2	1:05	54.3	x
2	1:10	51.2	x
2	1:15	49.6	
2	1:20	44.8	
2	1:25	44.5	L90
2	1:30	44.5	
2	1:35	47.7	
2	1:40	50.2	x
2	1:45	50.5	x
2	1:50	49.4	
2	1:55	47.8	
2	2:00	49.8	x
2	2:05	48.9	x
2	2:10	51.7	x
2	2:15	45.9	
2	2:20	45.7	
2	2:25	45	
2	2:30	44.8	
2	2:35	44	
2	2:40	43.5	
2	2:45	44.3	
2	2:50	44.2	
2	2:55	46.8	
2	3:00	50.2	x
2	3:05	50.4	x
2	3:10	50.8	x
2	3:15	50.2	x
2	3:20	49.3	x
2	3:25	52.6	x
2	3:30	53.8	x
2	3:35	52.3	x
2	3:40	50.8	x
2	3:45	49.8	x
2	3:50	50.1	x
2	3:55	49.9	x
2	4:00	47.5	
2	4:05	46.5	
2	4:10	45.9	
2	4:15	46.2	

211 Blacksmith Shop Rd			
Date: 20 June 12			
Time: 2:38 pm			
Run #	mm:ss	dB(A)	
3	5	47.7	
3	10	51.3	x
3	15	50.6	x
3	20	52.3	x
3	25	51	x
3	30	48.3	
3	35	47.9	
3	40	47.7	
3	45	48.6	
3	50	47.7	
3	55	46.2	
3	60	46.5	
3	1:05	45.3	
3	1:10	47.3	
3	1:15	50.1	x
3	1:20	51.2	x
3	1:25	51	x
3	1:30	49.7	
3	1:35	48.5	
3	1:40	48.4	
3	1:45	49.2	
3	1:50	47.6	
3	1:55	46.4	
3	2:00	46.5	
3	2:05	45.7	
3	2:10	45.1	
3	2:15	45.7	
3	2:20	46.9	
3	2:25	48.3	
3	2:30	49.2	
3	2:35	47.2	
3	2:40	47.4	
3	2:45	47.8	
3	2:50	52.5	x
3	2:55	52.1	x
3	3:00	50.5	x
3	3:05	50.7	x
3	3:10	50.2	x
3	3:15	50.1	x
3	3:20	48	
3	3:25	46.3	
3	3:30	47.7	
3	3:35	47.2	
3	3:40	47.2	
3	3:45	46.1	
3	3:50	47.2	
3	3:55	49.8	
3	4:00	48	
3	4:05	53.8	x
3	4:10	51	x
3	4:15	51.8	x

Broadband Ambient Analysis (Background)

1	4:20	49.9	2	4:20	49.5	3	4:20	51.1	x
1	4:25	49.1	2	4:25	49	3	4:25	49.9	x
1	4:30	48.2	2	4:30	47.9	3	4:30	48.6	
1	4:35	45.8	2	4:35	47.1	3	4:35	47	
1	4:40	44.7	2	4:40	45.9	3	4:40	46.3	
1	4:45	45.2	2	4:45	45.6	3	4:45	45.5	
1	4:50	47.8	2	4:50	45.5	3	4:50	46.3	
1	4:55	48.1	2	4:55	46.2	3	4:55	49.7	
1	5:00	46.3	2	5:00	45.3	3	5:00	56.5	x

L90	44.5	dBA

Sampler Summary Data (Does NOT Exclude interference sound)								
Lmax	54.6	dBA	Lmax	61.2	dBA	Lmax	56.6	dBA
Leq	47.8	dBA	Leq	48.6	dBA	Leq	49.5	dBA
L01	54.1	dBA	L01	55.1	dBA	L01	55.9	dBA
L10	49.8	dBA	L10	50.9	dBA	L10	51..8	dBA
L50	46.3	dBA	L50	46.7	dBA	L50	48.3	dBA
L90	44.3	dBA	L90	43.7	dBA	L90	45.9	dBA
LC-A	10.2	dBA	LC-A	14.4	dBA	LC-A	13.1	dBA

Met Data		
WS at Ground	2.4	m/s
WS at Hub	10	m/s
WS at CGAS	5.7	m/s
WD at Hub	249	degrees
WD at CGAS	240	degrees
BP	29.93	in
Humidity	71.6	%
Temp	84.2	degr F

Broadband Ambient Analysis (Background)

124 Ambleside Dr			
Date: 20 Jun 12			
Time: 3:06pm			
Run #	mm:ss	dB(A)	
1	5	48.6	
1	10	49.1	
1	15	51.1	
1	20	52	
1	25	52	
1	30	51.8	
1	35	52.5	
1	40	52.6	
1	45	54.4	
1	50	52.1	
1	55	52.3	
1	60	51.9	
1	1:05	50.5	
1	1:10	51	
1	1:15	51.9	
1	1:20	49.5	
1	1:25	50.3	
1	1:30	53	
1	1:35	52.7	
1	1:40	50.9	
1	1:45	48.3	
1	1:50	47.5	
1	1:55	50.9	
1	2:00	52.5	
1	2:05	52.7	
1	2:10	51	
1	2:15	50.2	L90
1	2:20	49.2	
1	2:25	49.7	
1	2:30	49.8	
1	2:35	52.7	
1	2:40	52	
1	2:45	48.1	
1	2:50	47.5	
1	2:55	49.9	
1	3:00	51.5	
1	3:05	50.9	
1	3:10	52	
1	3:15	52.7	
1	3:20	51.8	
1	3:25	51.6	
1	3:30	53	
1	3:35	49.6	
1	3:40	47.8	
1	3:45	49.6	
1	3:50	49.9	
1	3:55	50.9	

124 Ambleside Dr		
Date: 20 Jun 12		
Time: 3:14 pm		
Run #	mm:ss	dB(A)
2	5	48.4
2	10	49.5
2	15	49.9
2	20	49
2	25	48.1
2	30	50.5
2	35	52.7
2	40	51.9
2	45	53.3
2	50	56.7
2	55	51.7
2	60	58.6
2	1:05	51.8
2	1:10	53.5
2	1:15	51.9
2	1:20	52.3
2	1:25	50.8
2	1:30	48.2
2	1:35	51.9
2	1:40	52.8
2	1:45	52.9
2	1:50	52.3
2	1:55	51
2	2:00	47.9
2	2:05	50.9
2	2:10	51.1
2	2:15	52
2	2:20	52.2
2	2:25	49.7
2	2:30	52.3
2	2:35	51.4
2	2:40	49.7
2	2:45	49.1
2	2:50	50.6
2	2:55	49.7
2	3:00	50.6
2	3:05	51.5
2	3:10	52.5
2	3:15	49.2
2	3:20	48.5
2	3:25	49.7
2	3:30	49.8
2	3:35	50
2	3:40	49.1
2	3:45	49
2	3:50	48.1
2	3:55	47.8

124 Ambleside Dr		
Date: 20 Jun 12		
Time: 3:20 pm		
Run #	mm:ss	dB(A)
3	5	51.7
3	10	50.5
3	15	50.5
3	20	51.4
3	25	52.2
3	30	53.8
3	35	51.9
3	40	50.7
3	45	51.1
3	50	50.8
3	55	47.9
3	60	48
3	1:05	47
3	1:10	46.7
3	1:15	47.8
3	1:20	47.7
3	1:25	50.6
3	1:30	48.4
3	1:35	48.3
3	1:40	54.9
3	1:45	54.1
3	1:50	50.3
3	1:55	51.7
3	2:00	52.5
3	2:05	52
3	2:10	51
3	2:15	49.3
3	2:20	48.4
3	2:25	49.3
3	2:30	48.1
3	2:35	49.5
3	2:40	50.7
3	2:45	49.8
3	2:50	50.3
3	2:55	49.4
3	3:00	47.9
3	3:05	47.6
3	3:10	52.2
3	3:15	51.2
3	3:20	53
3	3:25	53.7
3	3:30	51.9
3	3:35	51.3
3	3:40	50.5
3	3:45	50
3	3:50	46.7
3	3:55	50.3

Broadband Ambient Analysis (Background)

1	4:00	52.3
1	4:05	52.5
1	4:10	52.7
1	4:15	51.7
1	4:20	55.4
1	4:25	52.6
1	4:30	51.3
1	4:35	54.7
1	4:40	52
1	4:45	51.1
1	4:50	52.3
1	4:55	52
1	5:00	50

2	4:00	48.8
2	4:05	49
2	4:10	48.6
2	4:15	50.5
2	4:20	48.5
2	4:25	48.2
2	4:30	49.2
2	4:35	49.1
2	4:40	52.1
2	4:45	50.9
2	4:50	50.5
2	4:55	53.1
2	5:00	52.9

3	4:00	53.7
3	4:05	53.5
3	4:10	51.2
3	4:15	51.1
3	4:20	49.6
3	4:25	49.8
3	4:30	50.6
3	4:35	50.2
3	4:40	51.2
3	4:45	53.4
3	4:50	51.3
3	4:55	51.4
3	5:00	50.1

L90	**50.2**	**dBA**

Sampler Summary Data (Does NOT Exclude interference sound)		
Lmax	61.7	dBA
Leq	51.7	dBA
L01	56.2	dBA
L10	52.9	dBA
L50	51.3	dBA
L90	48.7	dBA
LC-A	8.4	dBA

Lmax	58.7	dBA
Leq	51.1	dBA
L01	57.1	dBA
L10	52.8	dBA
L50	50.4	dBA
L90	48.2	dBA
LC-A	9.4	dBA

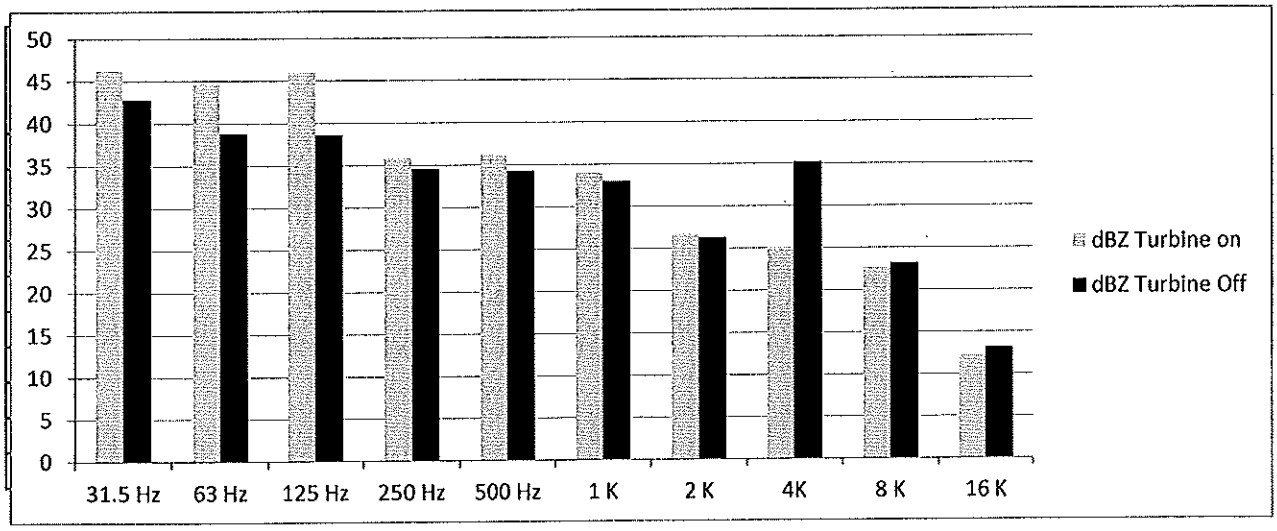
Lmax	55.7	dBA
Leq	51	dBA
L01	54.8	dBA
L10	53.2	dBA
L50	50.6	dBA
L90	47.8	dBA
LC-A	9.4	dBA

Met Data		
WS at Ground	2	m/s
WS at Hub	12.9	m/s
WS at CGAS	7.2	m/s
WD at Hub	251	degrees
WD at CGAS	240	degrees
BP	29.92	in
Humidity	71.6	%
Temp	84.2	degr F

PURE TONE ANALYSIS			
Location: 211 Blacksmith Shop Road			
Date: May 31, 2012			
Oct Band	dBZ Turbine on	compare to previous	compare to next
31.5 Hz	45.5	na	7.9
63 Hz	37.6	7.9	-0.9
125 Hz	38.5	-0.9	7.9
250 Hz	30.6	7.9	3.2
500 Hz	27.4	3.2	2
1 K	25.4	2	7.3
2 K	18.1	7.3	2.1
4K	16	2.1	3
8 K	13	3	1.9
16 K	11.1	1.9	na

Oct Band	dBZ Turbine Off	compare to previous	compare to next
31.5 Hz	41.1	na	7.2
63 Hz	33.9	7.2	-3.5
125 Hz	37.4	-3.5	12
250 Hz	25.4	12	-0.9
500 Hz	26.3	-0.9	1.7
1 K	24.6	1.7	7.4
2 K	17.2	7.4	2.4
4K	14.8	2.4	-0.2
8 K	15	-0.2	3.6
16 K	11.4	3.6	na

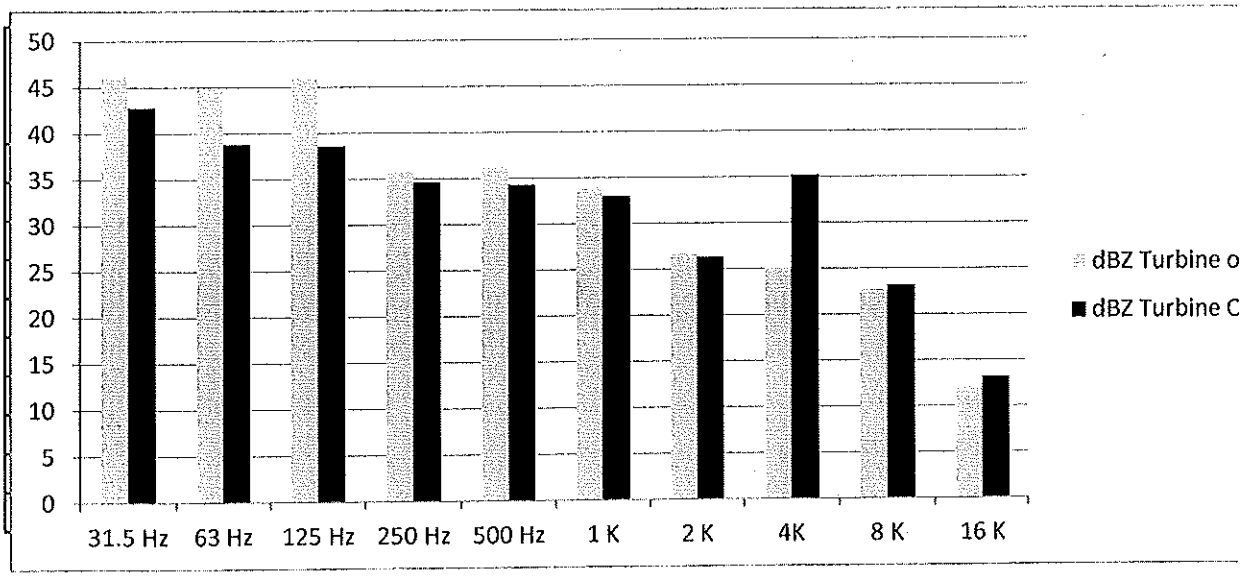
1/1 Oct Band	dBZ difference	compare to previous	compare to next
31.5 Hz	4.40	na	0.7
63 Hz	3.70	0.7	2.6
125 Hz	1.10	2.6	-4.1
250 Hz	5.20	-4.1	4.1
500 Hz	1.10	4.1	0.3
1 K	0.80	0.3	-0.1
2 K	0.90	-0.1	-0.3
4K	1.20	-0.3	3.2
8 K	-2.00	3.2	-1.7
16K	-0.30	-1.7	na



PURE TONE ANALYSIS			
Location: 211 Blacksmith Shop Road			
Date: June 5, 2012			
Oct Band	dBZ Turbine on	compare to previous	compare to next
31.5 Hz	46.2	na	1.5
63 Hz	44.7	1.5	-1.3
125 Hz	46	-1.3	10.1
250 Hz	35.9	10.1	-0.4
500 Hz	36.3	-0.4	2.3
1 K	34	2.3	7.3
2 K	26.7	7.3	1.6
4K	25.1	1.6	2.4
8 K	22.7	2.4	10.5
16 K	12.2	10.5	na

Oct Band	dBZ Turbine Off	compare to previous	compare to next
31.5 Hz	42.8	na	4
63 Hz	38.8	4	0.2
125 Hz	38.6	0.2	4
250 Hz	34.6	4	0.3
500 Hz	34.3	0.3	1.3
1 K	33	1.3	6.7
2 K	26.3	6.7	-8.9
4K	35.2	-8.9	12
8 K	23.2	12	10
16 K	13.2	10	na

1/1 Oct Band	dBZ difference	compare to previous	compare to next
31.5 Hz	3.40	na	-2.5
63 Hz	5.90	-2.5	-1.5
125 Hz	7.40	-1.5	6.1
250 Hz	1.30	6.1	-0.7
500 Hz	2.00	-0.7	1.0
1 K	1.00	1.0	0.6
2 K	0.40	0.6	10.5
4K	-10.10	10.5	-9.6
8 K	-0.50	-9.6	0.5
16K	-1.00	0.5	na



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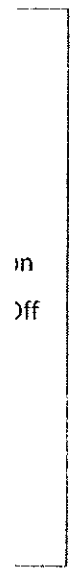
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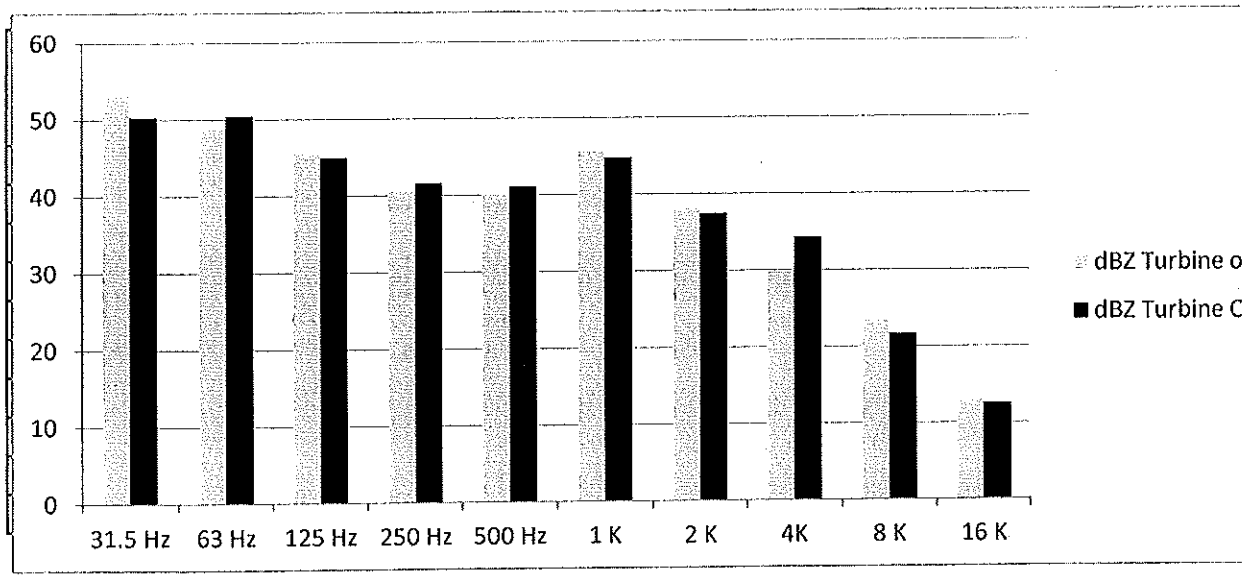
PURE TONE ANALYSIS			
Location: 124 Ambleside Dr			
Date: June 5, 2012			
Oct Band	dBZ Turbine on	compare to previous	compare to next
31.5 Hz	53.2	na	4.4
63 Hz	48.8	4.4	3.3
125 Hz	45.5	3.3	4.9
250 Hz	40.6	4.9	0.3
500 Hz	40.3	0.3	-5.3
1 K	45.6	-5.3	7.5
2 K	38.1	7.5	8.1
4K	30	8.1	6.4
8 K	23.6	6.4	10.5
16 K	13.1	10.5	na

Oct Band	dBZ Turbine Off	compare to previous	compare to next
31.5 Hz	50.3	na	-0.2
63 Hz	50.5	-0.2	5.5
125 Hz	45	5.5	3.4
250 Hz	41.6	3.4	0.5
500 Hz	41.1	0.5	-3.7
1 K	44.8	-3.7	7.3
2 K	37.5	7.3	3.2
4K	34.3	3.2	12.6
8 K	21.7	12.6	9.1
16 K	12.6	9.1	na

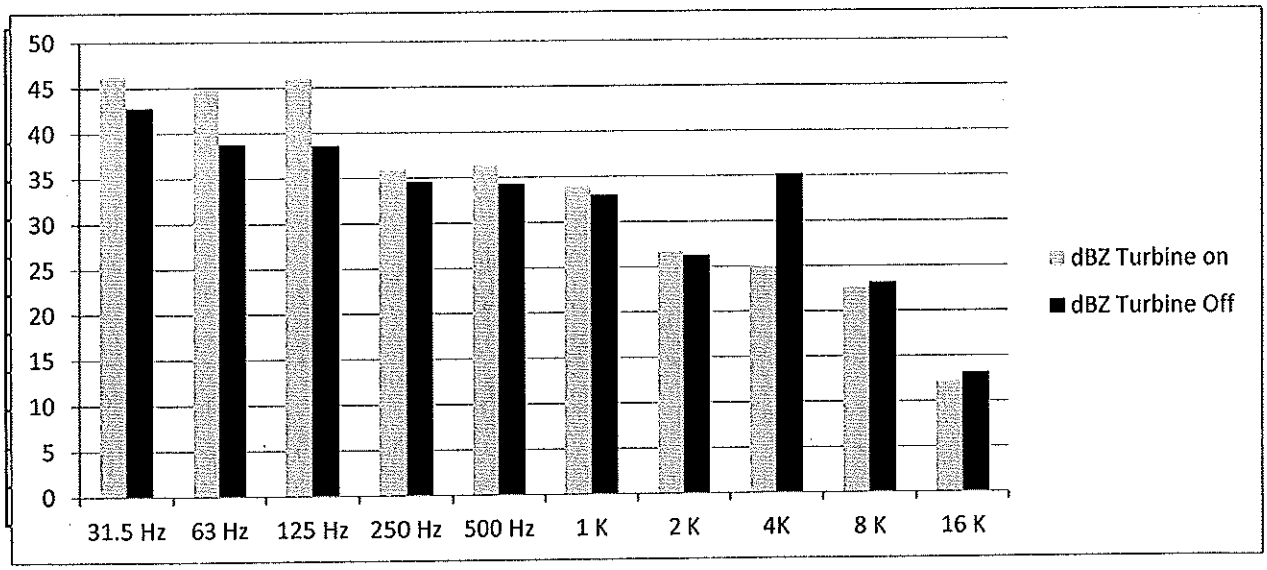
1/1 Oct Band	dBZ difference	compare to previous	compare to next
31.5 Hz	2.90	na	4.6
63 Hz	-1.70	4.6	-2.2
125 Hz	0.50	-2.2	1.5
250 Hz	-1.00	1.5	-0.2
500 Hz	-0.80	-0.2	-1.6
1 K	0.80	-1.6	0.2
2 K	0.60	0.2	4.9
4K	-4.30	4.9	-6.2
8 K	1.90	-6.2	1.4
16K	0.50	1.4	na



PURE TONE ANALYSIS			
Location: 211 Blacksmith Shop Road			
Date: June 20, 2012			
Oct Band	dBZ Turbine on	compare to previous	compare to next
31.5 Hz	56.5	na	5.9
63 Hz	50.6	5.9	4.1
125 Hz	46.5	4.1	6.6
250 Hz	39.9	6.6	0.2
500 Hz	39.7	0.2	0.4
1 K	39.3	0.4	2.5
2 K	36.8	2.5	-0.8
4K	37.6	-0.8	2.7
8 K	34.9	2.7	9.3
16 K	25.6	9.3	na

Oct Band	dBZ Turbine Off	compare to previous	compare to next
31.5 Hz	56.1	na	5.3
63 Hz	50.8	5.3	5.9
125 Hz	44.9	5.9	6.6
250 Hz	38.3	6.6	-1
500 Hz	39.3	-1	-0.5
1 K	39.8	-0.5	5.5
2 K	34.3	5.5	-1
4K	35.3	-1	2.9
8 K	32.4	2.9	8.2
16 K	24.2	8.2	na

1/1 Oct Band	dBZ difference	compare to previous	compare to next
31.5 Hz	0.40	na	0.6
63 Hz	-0.20	0.6	-1.8
125 Hz	1.60	-1.8	0.0
250 Hz	1.60	0.0	1.2
500 Hz	0.40	1.2	0.9
1 K	-0.50	0.9	-3.0
2 K	2.50	-3.0	0.2
4K	2.30	0.2	-0.2
8 K	2.50	-0.2	1.1
16K	1.40	1.1	na



PURE TONE ANALYSIS			
Location: 124 Ambleside Drive			
Date: June 20, 2012			
Oct Band	dBZ Turbine on	compare to previous	compare to next
31.5 Hz	53.1	na	1.7
63 Hz	51.4	1.7	2.8
125 Hz	48.6	2.8	8.7
250 Hz	39.9	8.7	0.9
500 Hz	39	0.9	-4.1
1 K	43.1	-4.1	2.4
2 K	40.7	2.4	-0.8
4K	41.5	-0.8	11.3
8 K	30.2	11.3	13
16 K	17.2	13	na

Oct Band	dBZ Turbine Off	compare to previous	compare to next
31.5 Hz	56.1	na	5.3
63 Hz	50.8	5.3	5.9
125 Hz	44.9	5.9	6.6
250 Hz	38.3	6.6	-1
500 Hz	39.3	-1	-0.5
1 K	39.8	-0.5	5.5
2 K	34.3	5.5	-1
4K	35.3	-1	2.9
8 K	32.4	2.9	8.2
16 K	24.2	8.2	na

1/1 Oct Band	dBZ difference	compare to previous	compare to next
31.5 Hz	-3.00	na	-3.6
63 Hz	0.60	-3.6	-3.1
125 Hz	3.70	-3.1	2.1
250 Hz	1.60	2.1	1.9
500 Hz	-0.30	1.9	-3.6
1 K	3.30	-3.6	-3.1
2 K	6.40	-3.1	0.2
4K	6.20	0.2	8.4
8 K	-2.20	8.4	4.8
16K	-7.00	4.8	na