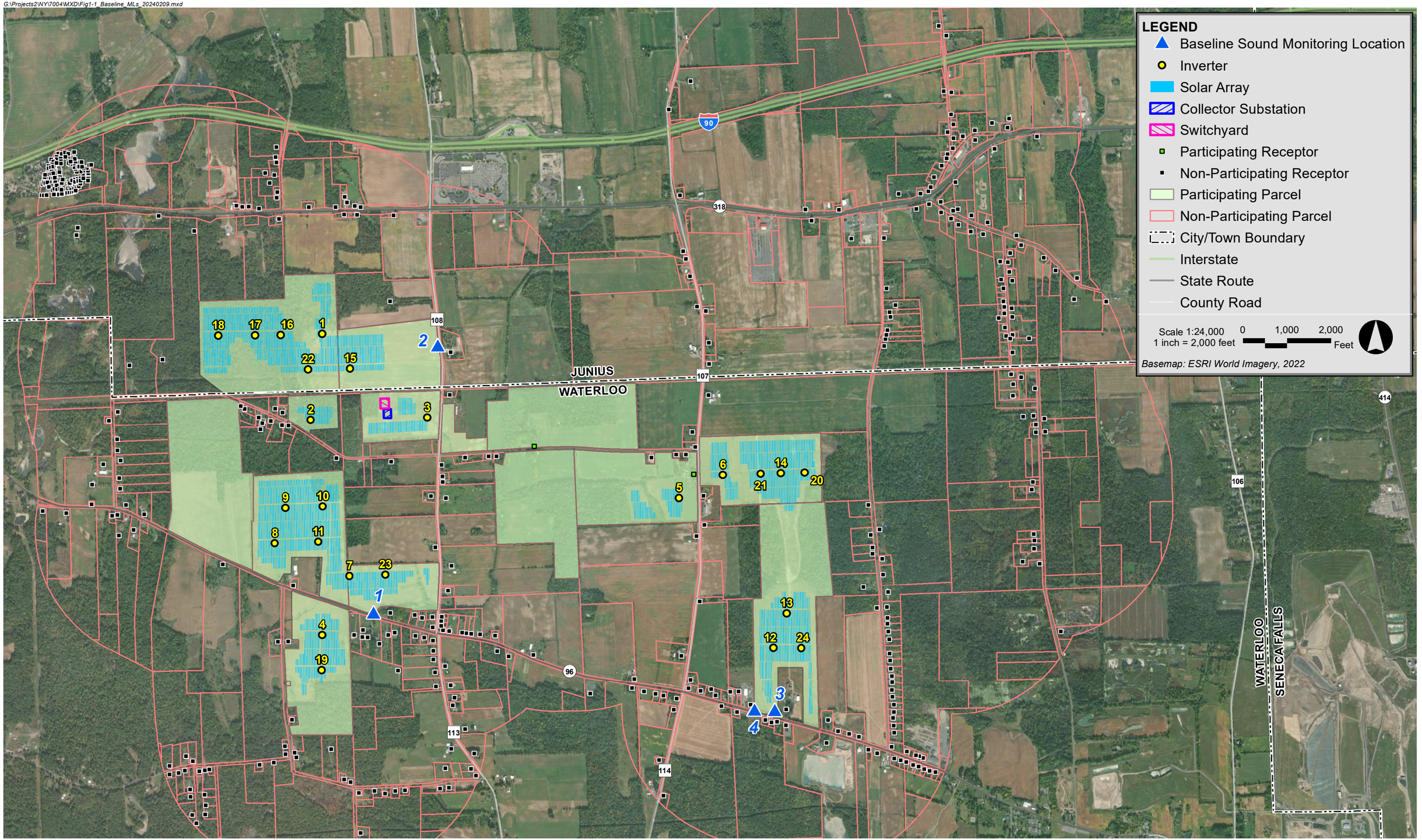
G:\Projects2\NY\7004\MXD\Fig1-1_Baseline_MLs_20240209.mxd




**North Seneca Solar** **Seneca County, New York**

Epsilon ASSOCIATES INC.

**Figure 1-1**
*Baseline Sound Monitoring Locations*

### *1.1.1 Location 1— NY 96*

One continuous programmable, unattended sound level meter was placed near NY Route 96 in the Town of Waterloo. The meter was placed approximately 65 feet northeast of the road across from Hidden Spring Lane. This location is representative of existing sound levels on the southwestern area of the project site and along NY Route 96.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 4:50 p.m. Wednesday, August 16, 2023 until 11:10 a.m. on Thursday, August 24, 2023. In total, 1,118 10-minute measurement periods were recorded during the measurement program.

### *1.1.2 Location 2— Ninefoot Road*

One continuous programmable, unattended sound level meter was placed near Ninefoot Road in the Town of Junius. The meter was placed approximately 50 feet west of the road and is representative of existing sound levels on the northwestern area of the Project Site and along Ninefoot Road.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 4:10 p.m. Wednesday, August 16, 2023 until 11:40 a.m. on Thursday, August 24, 2023. In total, 1,127 10-minute measurement periods were recorded during the measurement program.

In addition to sound data collection, continuous ground-level wind speed data and precipitation data were collected at this location.

### *1.1.3 Location 3 – NY 96*

One continuous programmable, unattended sound level meter was placed near NY Route 96 in the Town of Waterloo, across from the Kingdom Hall of Jehovah's Witnesses. The meter was placed approximately 180 feet north of the road and is representative of existing sound levels on the southeastern area of the Project Site.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 6:20 p.m. Wednesday, August 16, 2023 until 10:30 a.m. on Thursday, August 24, 2023. In total, 1,105 10-minute measurement periods were recorded during the measurement program.

In addition to sound data collection, continuous ground-level wind speed data and precipitation data were collected at this location.

### *1.1.4 Location 4 – Stoney Ridge Store*

One continuous programmable, unattended sound level meter was placed near Stoney Ridge Store in the Town of Waterloo. The meter was placed approximately 60 feet north of the road and is representative of existing sound levels on the southern area of the Project Site.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 6:00 p.m. Wednesday, August 16, 2023 until 11:00 a.m. on Thursday, August 24, 2023. In total, 1,110 10-minute measurement periods were recorded during the measurement program.

## 1.2 Sound Level Measurement Instrumentation

Each of the monitoring locations used either a Larson Davis (LD) model 831[1] sound level meter (SLM), a Larson Davis model 831C[2] SLM, or a Brüel & Kjær (B&K) model Type 2250[3] to measure both A-weighted (dBA) and one third octave bands from 6.3Hz to 20,000Hz. A one-second time history data collection using the "fast" response setting was also implemented. The meters logged data every 10-minutes with statistical data for the $L_{eq}$ and $L_{90}$ among other parameters.

Each instrument was equipped with a LD PRM 831 preamplifier and a PCB 377B20 or a PCB 377C20 half inch microphone or a B&K Type 4952 preamplifier and microphone, along with an environmental protection kit. The kit included a 7-inch open cell foam wind screen to reduce wind-induced noise over the microphone. A peer-reviewed study presenting the windscreen insertion loss data by one-third octave band for each wind screen used in the background monitoring is provided in Appendix A. Since all measured sound level results are presented in terms of ANS weighting (see discussion in section 2.1), frequencies above 1250 Hz are not included, and thus the minor microphone insertion losses at higher frequencies are not relevant.

Microphones were tripod-mounted at a height of approximately five feet (1.5 meters) above ground level in accordance with ANSI S12.9-1992/Part 2 (R2013). Horizontal

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[1] Noise floor specified in manufacturer's manual with use of PRM831 preamplifier and 377B20 microphone for A-weighted sound pressure levels is 18dBA at a 0dB gain and 17dBA at a 20dB gain. Noise floor specified for Z-weighted sound pressure levels is 23dBA at a 0dB gain and 21dBA at a 20dB gain.

[2] Noise floor specified in manufacturer's manual with use of PRM831 preamplifier and 377B02 microphone for A-weighted sound pressure levels is 16dBA at a 0dB gain and 16dBA at a 20dB gain. Noise floor specified for Z-weighted sound pressure levels is 23dBA at a 0dB gain and 23dBA at a 20dB gain.

[3] Noise floor specified in manufacturer's manual A-weighted sound pressure levels is 17 dBA.

microphone placements near roadways were in accordance with ANSI S12.9-1992/Part 2 (R2013) for open land.

The LD831, LD831C and B&K Type 2250 meters meet Type 1 ANSI/ASA S1.4, ANSI S1.43-1997 (R2007), and IEC 61672 Class 1 standards for sound level meters and were calibrated and certified as accurate to standards set by the National Institute of Standards and Technology. The octave band filters for all instrumentation meet ANSI S1.11-2004 (R2009). These calibrations were conducted by an independent laboratory within 12 months of field placement and certificates of calibration are provided in Appendix B. All measurement equipment was calibrated in the field before and after the surveys with the manufacturer's acoustical calibrator which meets the standards of IEC 60942-2003 Class 1L and ANSI/ASA S1.40-2006 (R2016).

## 1.3 Meteorological Instrumentation

### *1.3.1 Ground Level Winds*

Wind speed can have a strong influence on ambient sound levels. In order to understand how the existing sound levels are influenced by wind speed, a HOBO H21-USB micro-weather station and data logger (manufactured by Onset Computer Corporation) with tripod was used to continuously measure the ground-level wind speed at Location 2 and Location 3.

The HOBO wind instruments have a measurement range of 0 to 44 m/s (99 mph) or 0 to 76 m/s (170 mph) and an accuracy of +/- 0.5 m/s (1.1 mph) or +/- 1.1 m/s (2.4 mph). The starting threshold is 0.5 m/s (1.1 mph) or ≤1.0 m/s (2.2 mph).

### *1.3.2 Precipitation, Temperature, and Relative Humidity*

Precipitation, temperature, and relative humidity data from the New York State MesoNet system were collected during the measurements. The New York State MesoNet consists of 126 state-of-the-art environmental monitoring stations and serves as the foundation of an Early Warning Severe Weather Detection network for the entire State of New York. The New York State MesoNet was developed by research scientists at the State University of New York (SUNY) at Albany's Atmospheric Sciences Research Center, and Department of Atmospheric and Environmental Sciences. MesoNet sites are distributed statewide with every county across New York having at least one or more sites. The MesoNet collects measurements of several surface and atmospheric variables, such as temperature, relative humidity, wind speed and direction, surface pressure, soil moisture, soil temperature, solar radiation, and precipitation amounts for rainfall and snow accumulation. These data are archived and available to the public.

The Waterloo MesoNet station is located approximately 5.1 miles southeast from the closest North Seneca Solar sound level measurement location. This MesoNet station is the closest to the Project site. The SUNY MesoNet data from the Waterloo station is provided in Appendix C of this report.

## 1.4 Low Frequency and Infrasound Monitoring

Although not relevant to solar energy projects, all monitoring locations were equipped to measure existing levels of low frequency and infrasound down to 6.3 Hz for informational purposes.

## 2.0 BASELINE SOUND LEVEL MONITORING RESULTS

This chapter discusses the results from the detailed ambient (baseline) monitoring program outlined in the previous chapter. Specifically, the logic for data validity, and sound level result descriptions for the monitoring locations are explained.

### 2.1 Data Formatting Overview

Sound level data were collected in 10-minute intervals[4] at four strategically selected locations around the proposed solar energy project. Monitoring periods that experienced elevated ground-level wind speeds or precipitation were excluded from the data analysis per Method #1 in ANSI S12.18-1994. According to this standard, "No sound level measurement shall be made when the average wind velocity exceeds 5 m/s when measured at a height of 2±0.2 m above the ground". In addition, "Measurement during precipitation […] is highly discouraged". Precipitation events identified at the SUNY MesoNet station in Waterloo, NY defined periods for which sound level data were excluded from the analysis for the measurement program. By convention, daytime is defined as the hours from 7:00 AM through 9:59 PM and nighttime is defined as the hours from 10:00 PM through 6:59 AM.

The sound level equipment used in ambient monitoring have specifications regarding operative ranges under certain air conditions, e.g., temperature and relative humidity.[5,6] Data from the Waterloo MesoNet station was additionally referenced for the range exceedances during all measurement timeframes. Sound levels during these exceedances were excluded from further processing.

Intermittent noise was automatically filtered by using the $L_{90}$ statistic. Seasonal noise was removed from the ambient sound level measurements regardless of season. A high-frequency natural sound (HFNS) filter was applied to the measured one-third octave-band data from which a broadband sound level was calculated for the monitoring period. This technique removes all sound energy above the 1,250 Hertz frequency band. The methodology for the filtration process is as specified in ANSI/ASA S12.100-2014 as

[4] It should be noted that all sound level instrumentation and ground level meteorological instrumentation were time-synchronized to align the monitoring periods.

[5] Periods measured outside the temperature range of 14°F to 122°F were considered invalid due to the Larson Davis Model 831 SLM specifications.

[6] Periods measured outside the relative humidity range of 1 to 99% were considered invalid based on microphone specifications. The accuracy of sound levels measured with a Larson Davis Model 831 SLM outside the relative humidity range of 25% to 90% is unknown; however, the data are not considered invalid and are included in the data summaries.

required by Section 900-2.8(i) of the Section 94-c regulations. The calculated sound pressure levels presented in Chapter 3 of this report using this methodology are indicated as ANS-weighted levels (presented in dBA). The "as-measured" broadband A-weighted (dBA) $L_{eq}$ and $L_{90}$ and one-third octave band ambient sound levels are presented graphically for each location in the following subsections. The one-third octave-band data span the frequencies from 12.5 Hz to 10,000 Hz.

## 2.2 Location 1 – NY 96

Sound levels at Location 1 were influenced by distant and occasionally local vehicular traffic, birds, insects, occasional aircrafts, dogs barking, lawnmowers, wind, and vegetation rustle. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-1. This figure includes ground-level wind speeds measured at Location 2. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Waterloo MesoNet station, are identified in the figure. A total of 15 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,103 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 1 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-2, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 8,000 Hz octave band for the daytime measurement period was likely due to insect activity.

## 2.3 Location 2 – Ninefoot Road

Sound levels at Location 2 were influenced by vehicular traffic, birds, insects, occasional aircrafts, construction noise, children playing, wind, and vegetation rustle. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-3. This figure includes ground-level wind speeds measured at Location 2. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Waterloo MesoNet station, are identified in the figure. A total of 15 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,112 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 2 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-4, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime.

## 2.4 Location 3 – NY 96

Sound levels at Location 3 were influenced by children in the school playground and track, distant vehicular traffic, birds, insects, frogs, dogs barking, wind, and vegetation rustle. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-5. This figure includes ground-level wind speeds measured at Location 3. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Waterloo MesoNet station, are identified in the figure. A total of 12 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,093 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 3 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-6, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 8,000 Hz octave band for the daytime measurement period was likely due to insect activity.

## 2.5 Location 4 – Stoney Ridge Store

Sound levels at Location 4 were influenced by occasional vehicular traffic, birds, insects, dogs, chickens, frogs, wind, and vegetation. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-7. This figure includes ground-level wind speeds measured at Location 4. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Waterloo MesoNet station, are identified in the figure. A total of 12 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,098 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 4 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-8, as

logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 5,000 Hz octave band for the daytime measurement period was likely due to insect activity.

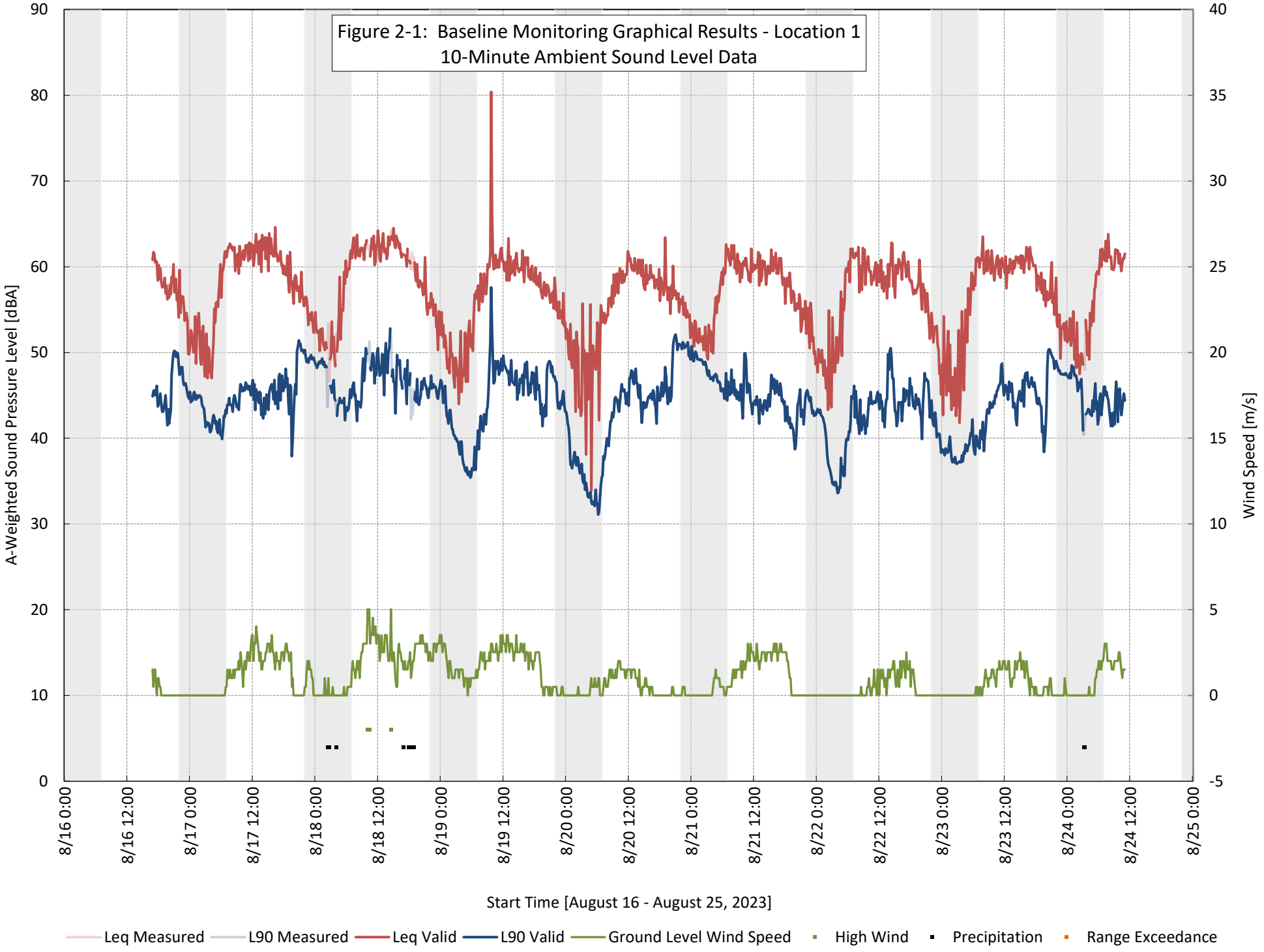
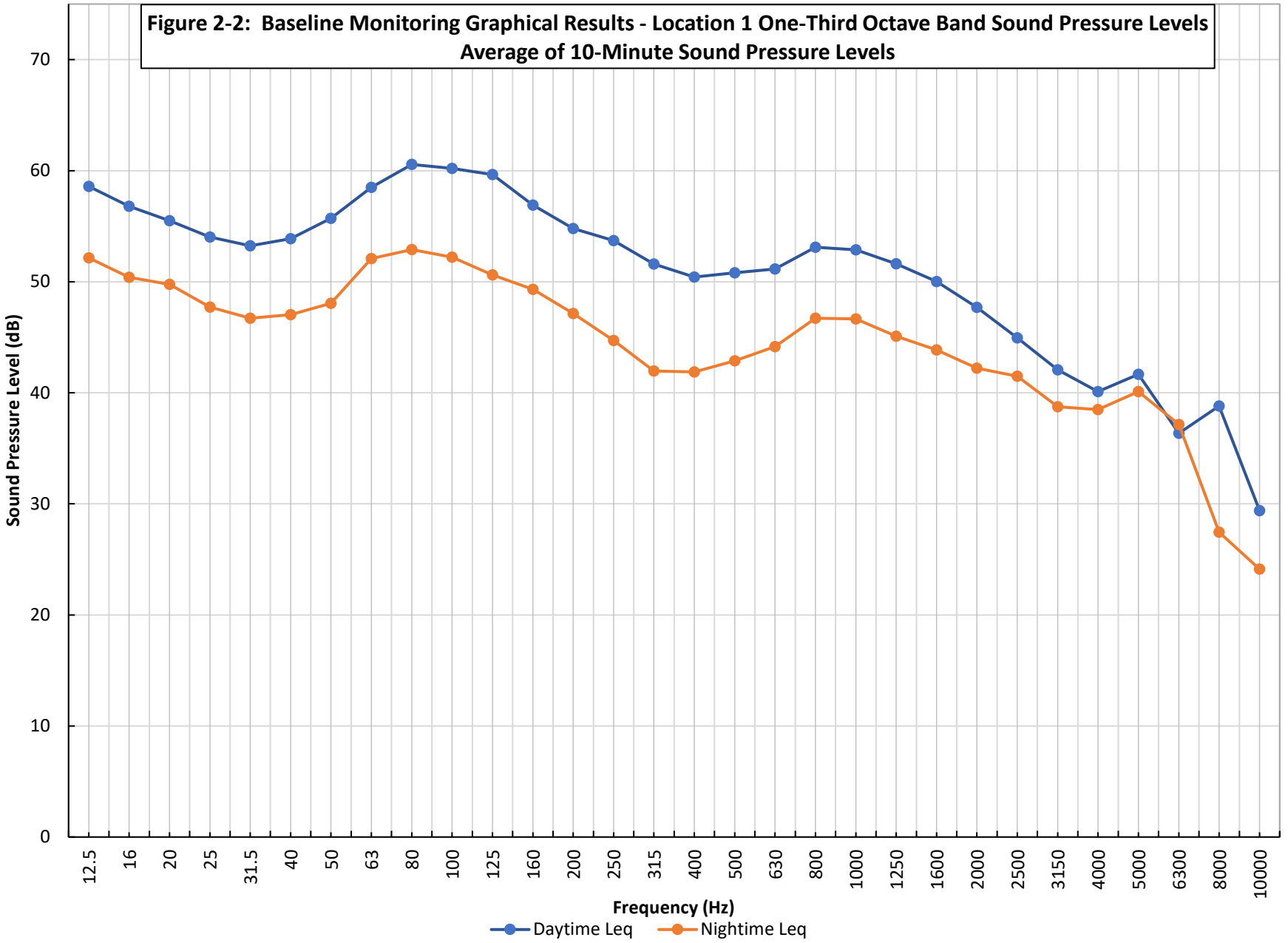


Figure 2-1: Baseline Monitoring Graphical Results - Location 1
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/16 0:00
8/16 12:00
8/17 0:00
8/17 12:00
8/18 0:00
8/18 12:00
8/19 0:00
8/19 12:00
8/20 0:00
8/20 12:00
8/21 0:00
8/21 12:00
8/22 0:00
8/22 12:00
8/23 0:00
8/23 12:00
8/24 0:00
8/24 12:00
8/25 0:00
Start Time [August 16 - August 25, 2023]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

**Figure 2-2: Baseline Monitoring Graphical Results - Location 1 One-Third Octave Band Sound Pressure Levels**
**Average of 10-Minute Sound Pressure Levels**



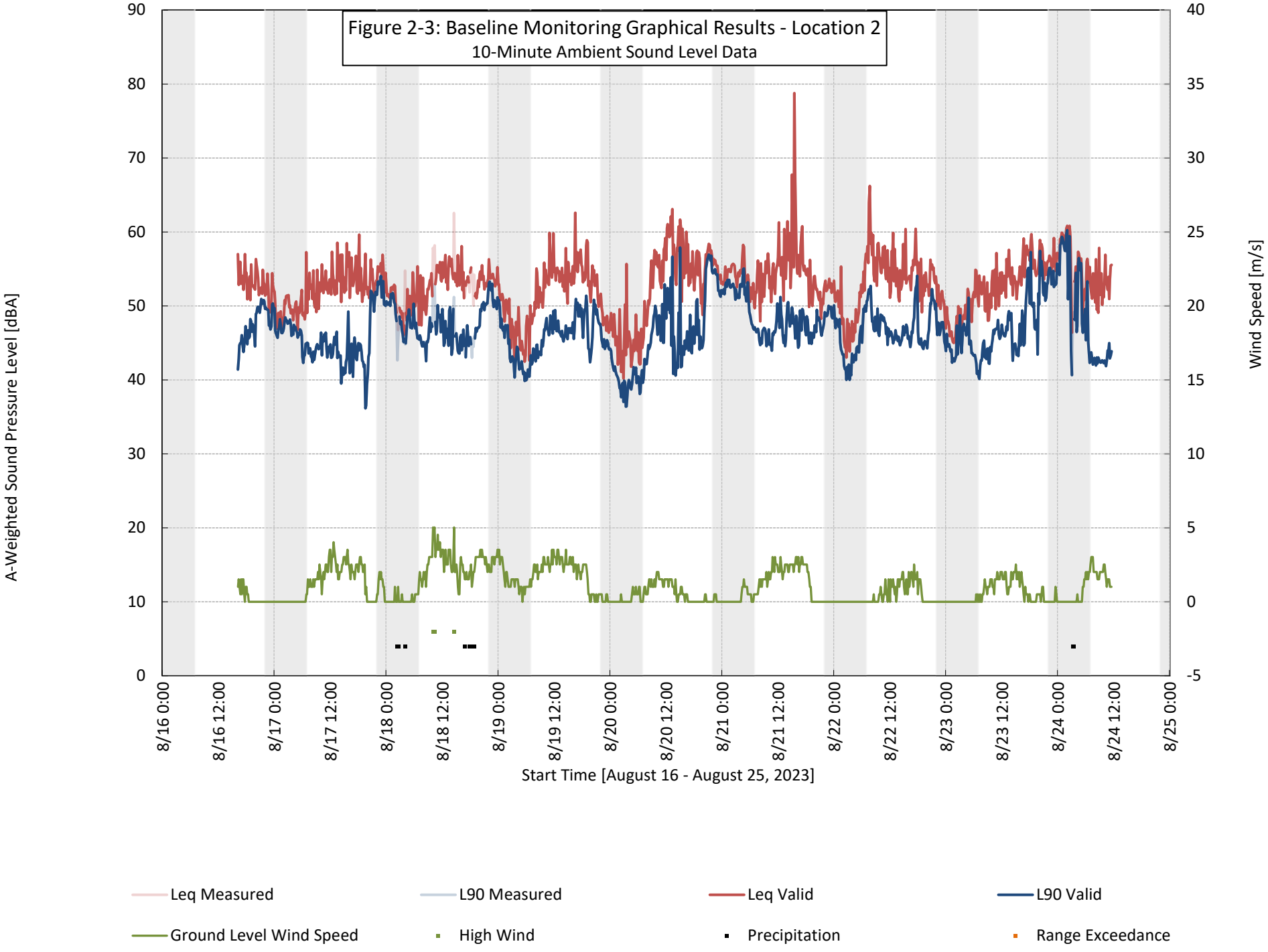
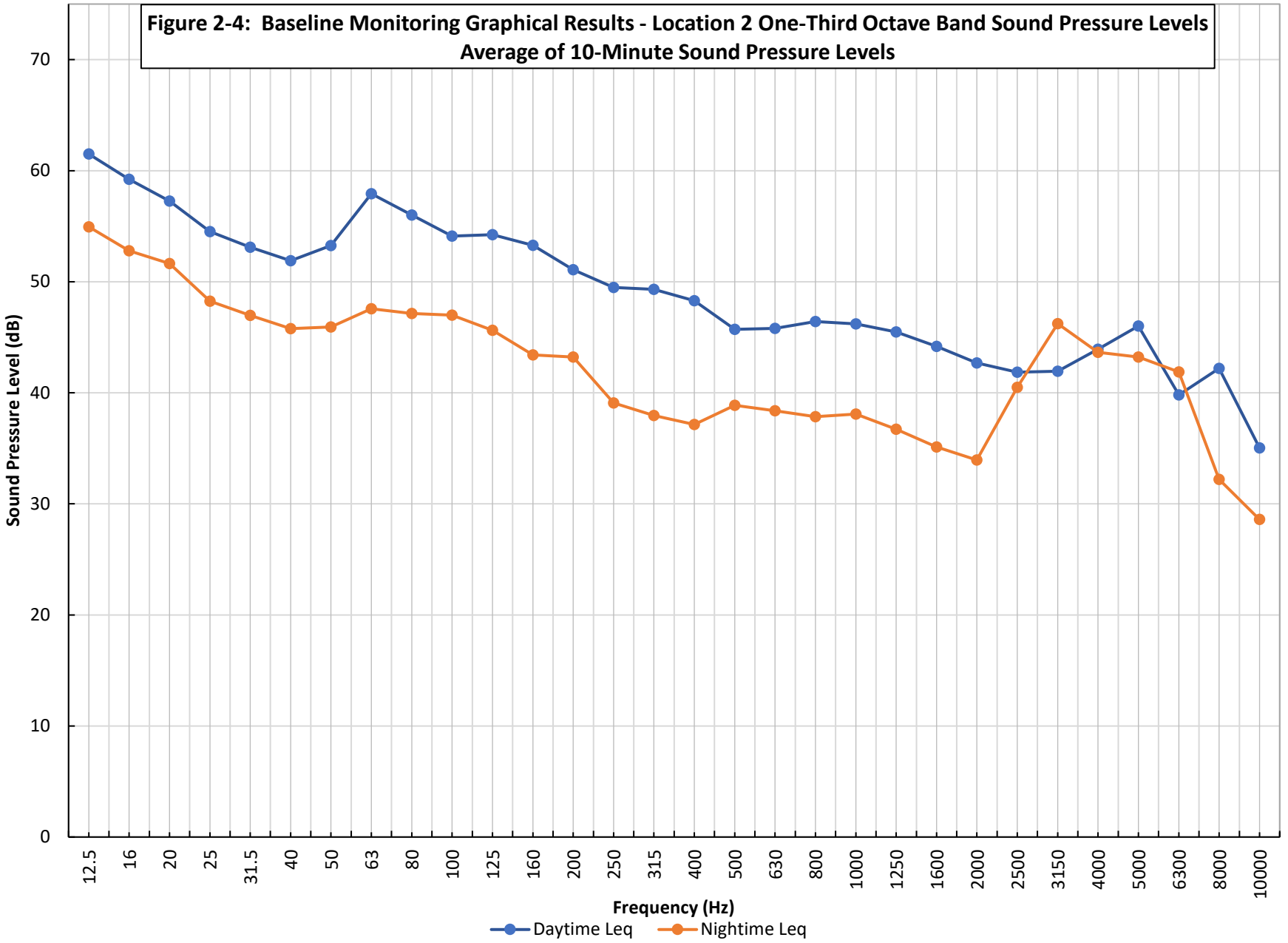


Figure 2-3: Baseline Monitoring Graphical Results - Location 2
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
Start Time [August 16 - August 25, 2023]
8/16 0:00
8/16 12:00
8/17 0:00
8/17 12:00
8/18 0:00
8/18 12:00
8/19 0:00
8/19 12:00
8/20 0:00
8/20 12:00
8/21 0:00
8/21 12:00
8/22 0:00
8/22 12:00
8/23 0:00
8/23 12:00
8/24 0:00
8/24 12:00
8/25 0:00
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

**Figure 2-4: Baseline Monitoring Graphical Results - Location 2 One-Third Octave Band Sound Pressure Levels**
**Average of 10-Minute Sound Pressure Levels**



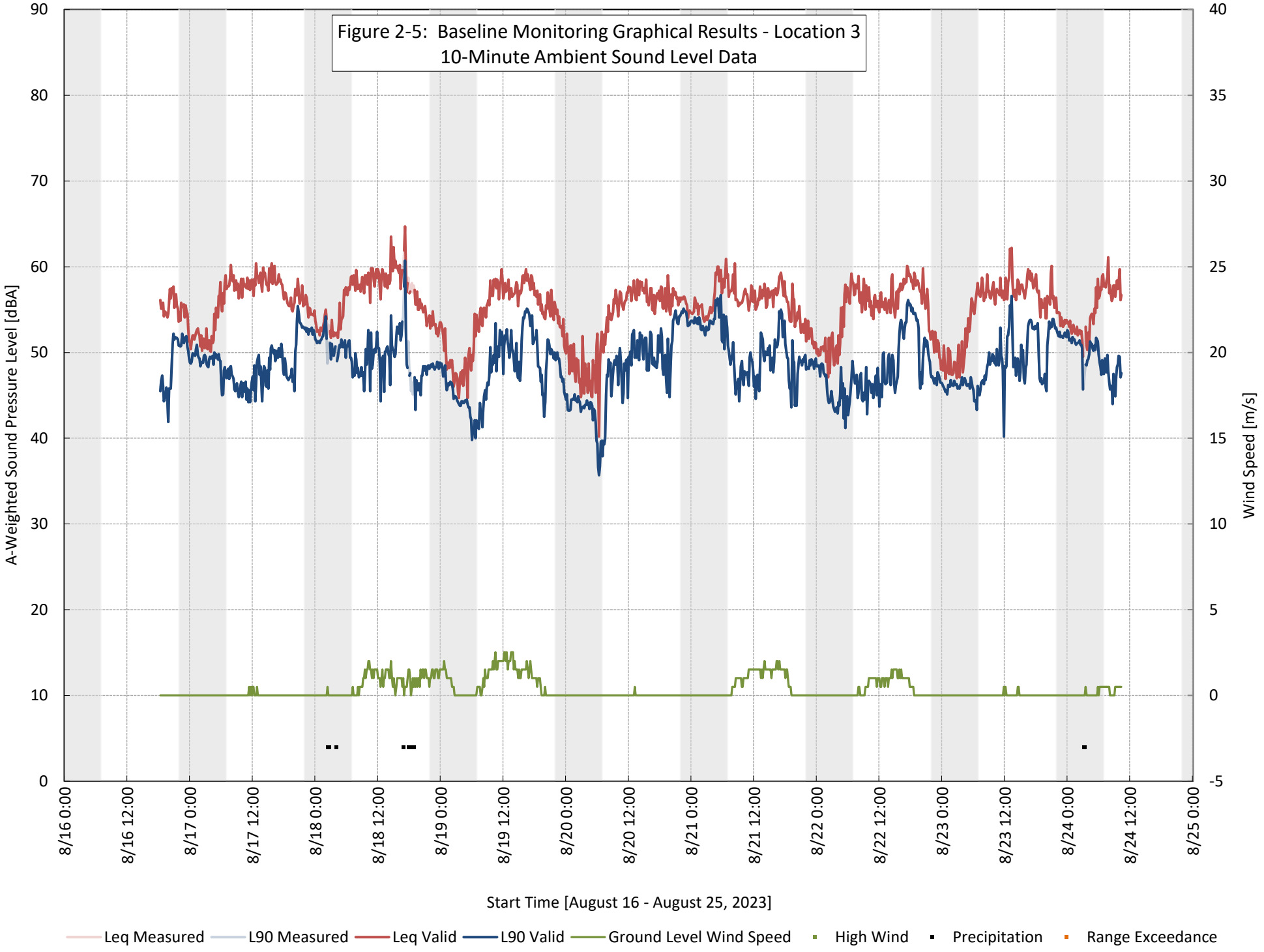
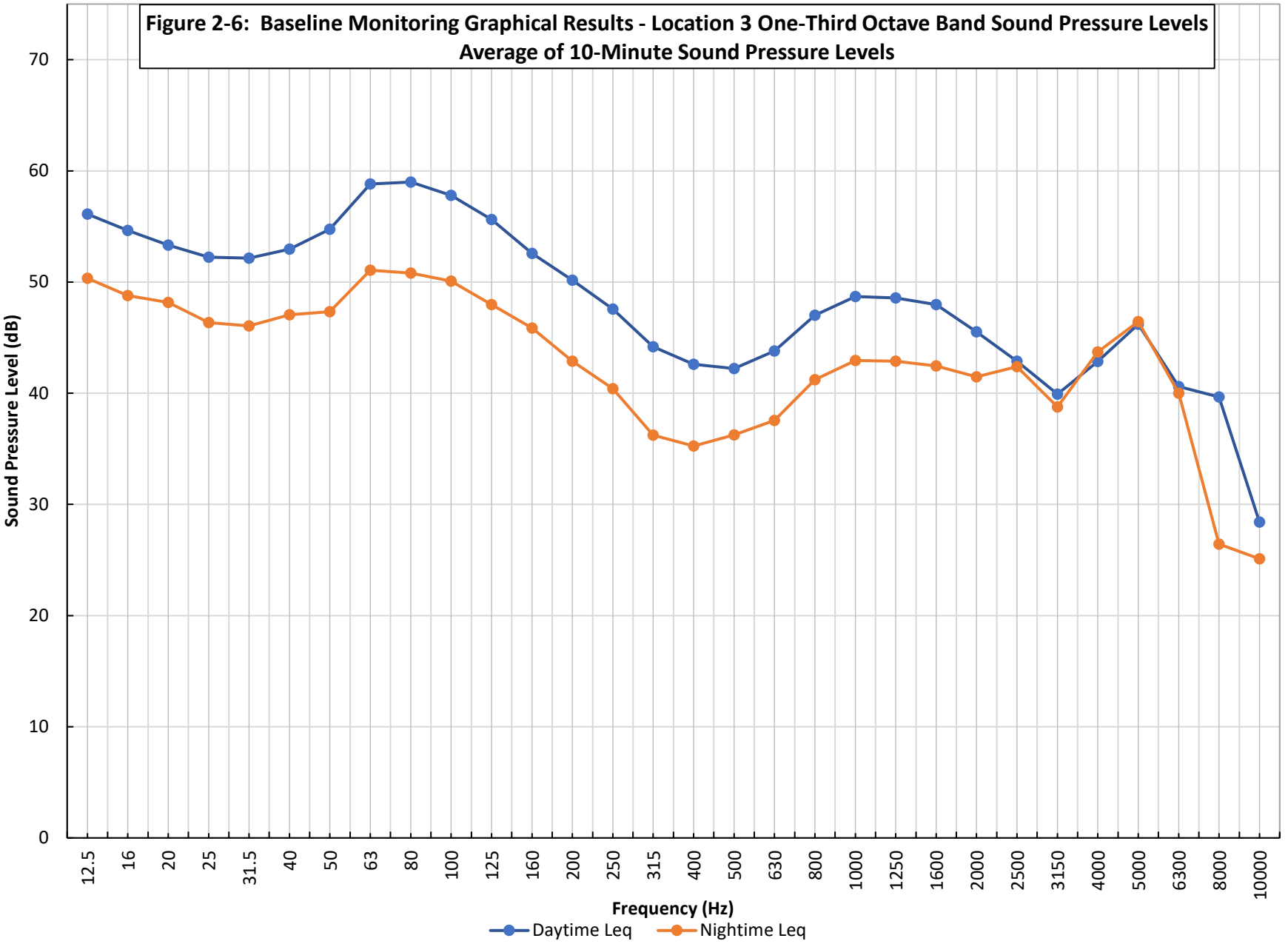


Figure 2-5: Baseline Monitoring Graphical Results - Location 3
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/16 0:00
8/16 12:00
8/17 0:00
8/17 12:00
8/18 0:00
8/18 12:00
8/19 0:00
8/19 12:00
8/20 0:00
8/20 12:00
8/21 0:00
8/21 12:00
8/22 0:00
8/22 12:00
8/23 0:00
8/23 12:00
8/24 0:00
8/24 12:00
8/25 0:00
Start Time [August 16 - August 25, 2023]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

**Figure 2-6: Baseline Monitoring Graphical Results - Location 3 One-Third Octave Band Sound Pressure Levels**
**Average of 10-Minute Sound Pressure Levels**



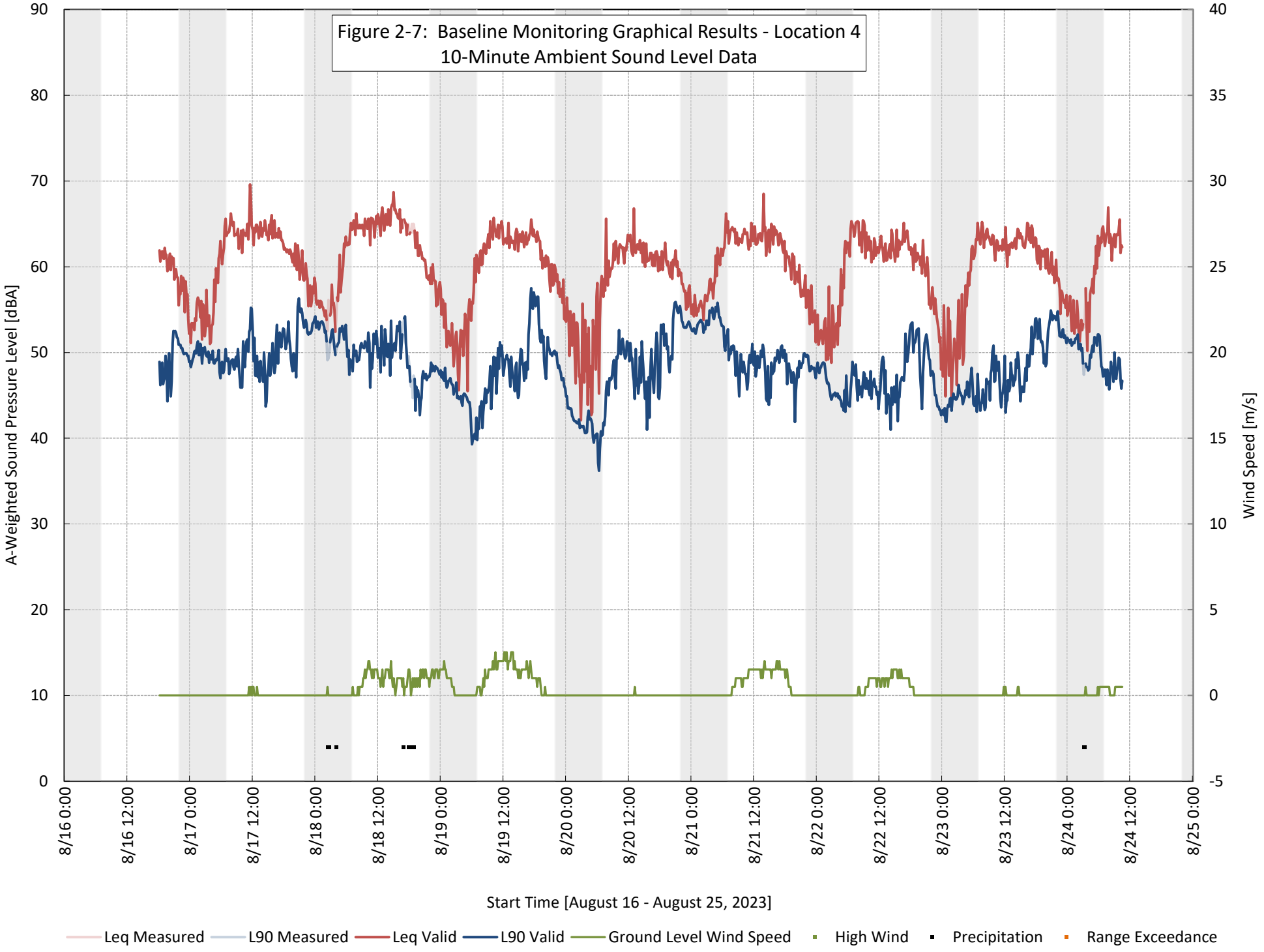
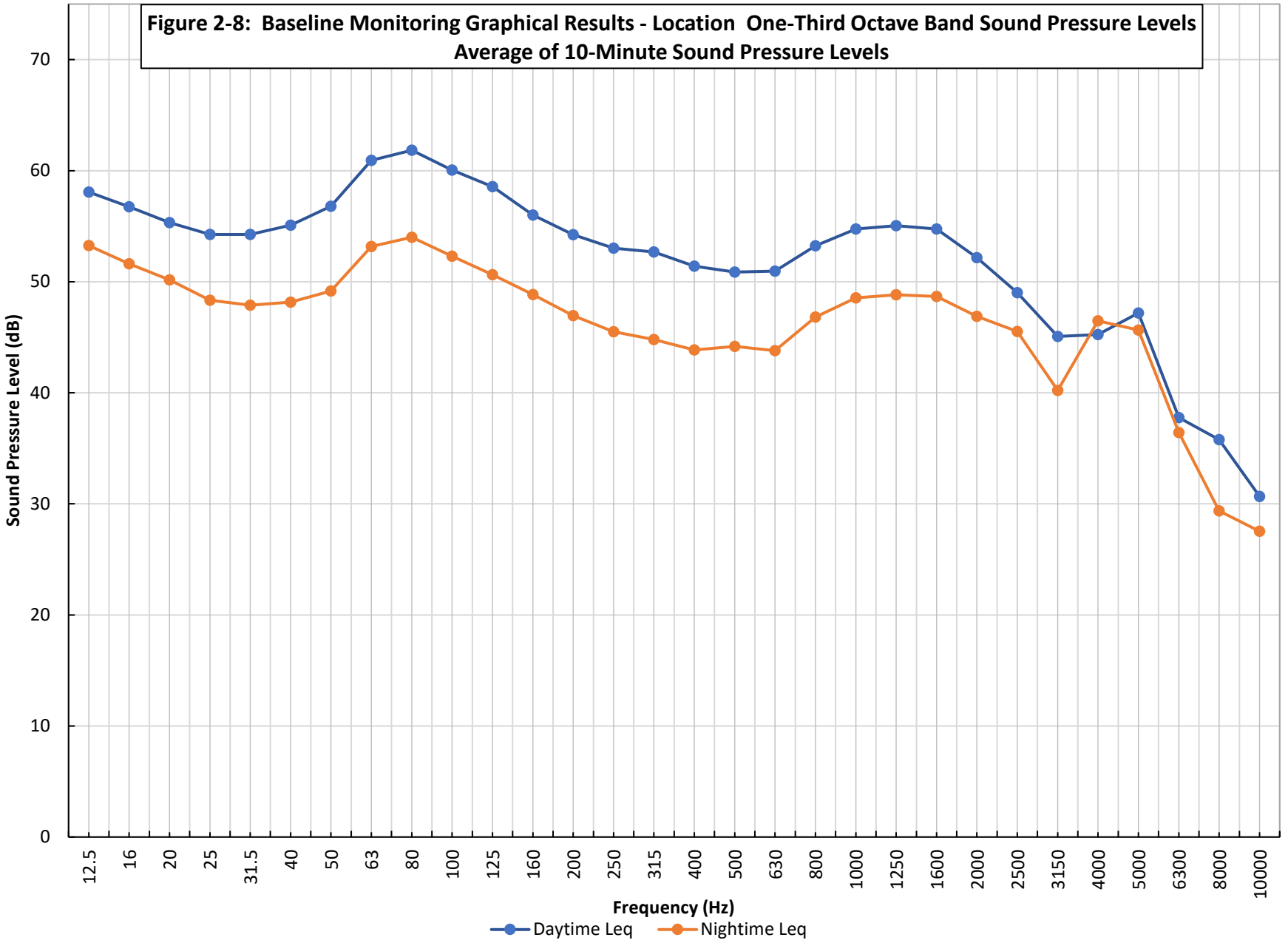


Figure 2-7: Baseline Monitoring Graphical Results - Location 4
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/16 0:00
8/16 12:00
8/17 0:00
8/17 12:00
8/18 0:00
8/18 12:00
8/19 0:00
8/19 12:00
8/20 0:00
8/20 12:00
8/21 0:00
8/21 12:00
8/22 0:00
8/22 12:00
8/23 0:00
8/23 12:00
8/24 0:00
8/24 12:00
8/25 0:00
Start Time [August 16 - August 25, 2023]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

**Figure 2-8: Baseline Monitoring Graphical Results - Location One-Third Octave Band Sound Pressure Levels**
**Average of 10-Minute Sound Pressure Levels**



# 3.0 SOUND LEVEL MONITORING SUMMARY

A baseline monitoring program was performed for the proposed North Seneca Solar Project to characterize the existing sound level environment in the Project area. The measured sound levels are summarized below as tabular data by location. Respective ANS-weighted broadband sound levels calculated for the summary period of interest are provided along with the "as-measured" broadband levels within each table. Only valid[7] 10-minute measurement periods are included in the summary tables.

## 3.1 Existing Ambient – $L_{90}$

Measured ambient $L_{90}$ sound levels are shown below in Table 3-1. Values are separated by daytime and nighttime periods as well as for the entire program combined. These values represent the $L_{90}$ of the measured $L_{90}$ values.

**Table 3-1 Existing Ambient $L_{90}$ (dBA) Sound Pressure Level Summary**

| Location | Overall (dBA) | | Daytime (dBA) | | Nighttime (dBA) | |
|---|---|---|---|---|---|---|
| | Measured | ANS | Measured | ANS | Measured | ANS |
| Location 1 | 39 | 27 | 42 | 32 | 36 | 23 |
| Location 2 | 42 | 28 | 43 | 31 | 41 | 26 |
| Location 3 | 45 | 31 | 45 | 37 | 44 | 25 |
| Location 4 | 44 | 31 | 45 | 36 | 43 | 26 |

## 3.2 Existing Ambient - $L_{eq}$

Measured average ambient $L_{eq}$ levels are presented in Table 3-2. Values are separated by daytime and nighttime periods as well as for the entire program combined.

**Table 3-2 Existing Ambient $L_{eq}$ (dBA) Sound Pressure Level Summary**

| Location | Overall (dBA) | | Daytime (dBA) | | Nighttime (dBA) | |
|---|---|---|---|---|---|---|
| | Measured | ANS | Measured | ANS | Measured | ANS |
| Location 1 | 57 | 56 | 60 | 58 | 52 | 49 |
| Location 2 | 53 | 48 | 54 | 51 | 51 | 42 |
| Location 3 | 55 | 51 | 57 | 54 | 52 | 45 |
| Location 4 | 60 | 57 | 63 | 60 | 56 | 50 |

[7] Refer to Chapter 2 for details concerning valid periods.

# Appendix A

## Windscreen Insertion Loss

# Experimental study to determine wind-induced noise and windscreen attenuation effects on microphone response for environmental wind turbine and other applications

George F. Hessler[a)], David M. Hessler[b)], Peter Brandstätt[c)] and Karlheinz Bay[d)]

(Received: 23 February 2008; Revised: 30 May 2008; Accepted: 31 May 2008)

**Despite the use of windscreens, the measurement of ambient sound levels or noise emissions in quiet environments can be adversely affected by wind blowing over the microphone. This is especially true when environmental impact assessments are being carried out for proposed wind turbine power projects - where the objective is to determine the level of background masking noise available as a function of wind speed, since any potential noise impact from the project will only occur under moderately windy conditions. Under calm conditions the project will produce no noise at all. A number of windscreen products are commercially available for short and long-term sound level monitoring in adverse weather conditions. Generally, these windscreens vary by physical size and the method of preventing water from reaching the microphone. High frequency attenuation effects are usually available from the product suppliers but, in general, low frequency turbulence effects are not available. Consequently, a controlled laboratory test program was carried out in a state-of-the-art wind tunnel at the Fraunhofer Institut für Bauphysik in Stuttgart, Germany to quantify the level of low frequency interference (down to 6.3 Hz) associated with a number of different foam windscreens and an aerodynamic microphone nose cone. A total of nine configurations were tested with "quiet" airflow only, artificial noise only and noise plus airflow to evaluate both low frequency wind induced noise and high frequency attenuation effects. The test program demonstrated that the largest size foam-based windscreens provided the most protection from flow induced noise due to wind. Flow induced noise by air flow alone was estimated from the study results and compared to community noise measurements at a typical wind turbine site. It was determined that flow induced wind noise does not have a significant or detrimental effect on the measurement of A-weighted sound levels under wind conditions of concern as long as the suggested measurement techniques described herein are followed.**


Primary subject classification: 71.1.1; Secondary subject classification: 21.6

## 1 INTRODUCTION

It is a challenge to measure ambient or background levels in quiet, rural environments. Such areas are usually devoid of any major noise sources, such as highways, industrial facilities or airports. Except for occasional, usually man-made, noise events the sound level in rural environments is normally dominated by the rustling of tree leaves or branches in the wind or by the high frequency sounds of insects during the warmer months of the year. For wind turbine power project assessments, ambient sound levels when the wind is blowing in the 3 to 10 m/s range (measured at 10 m above the surface) is very relevant because that is when typical wind turbines first begin to generate significant noise. At higher wind speeds turbine sound levels remain largely constant while the background sound continues to increase. Consequently, background sound

[a)] Hessler Associates, Inc., Haymarket, VA; email: George@HesslerAssociates.com.
[b)] Hessler Associates, Inc., Haymarket, VA; email: David@HesslerAssociates.com.
[c)] Fraunhofer Institut für Bauphysik, Stuttgart, GERMANY; email: Peter.Brandstaett@ibp.fraunhofer.de.
[d)] Fraunhofer Institut für Bauphysik, Stuttgart, GERMANY; email: Karlheinz.Bay@ibp.fraunhofer.de.

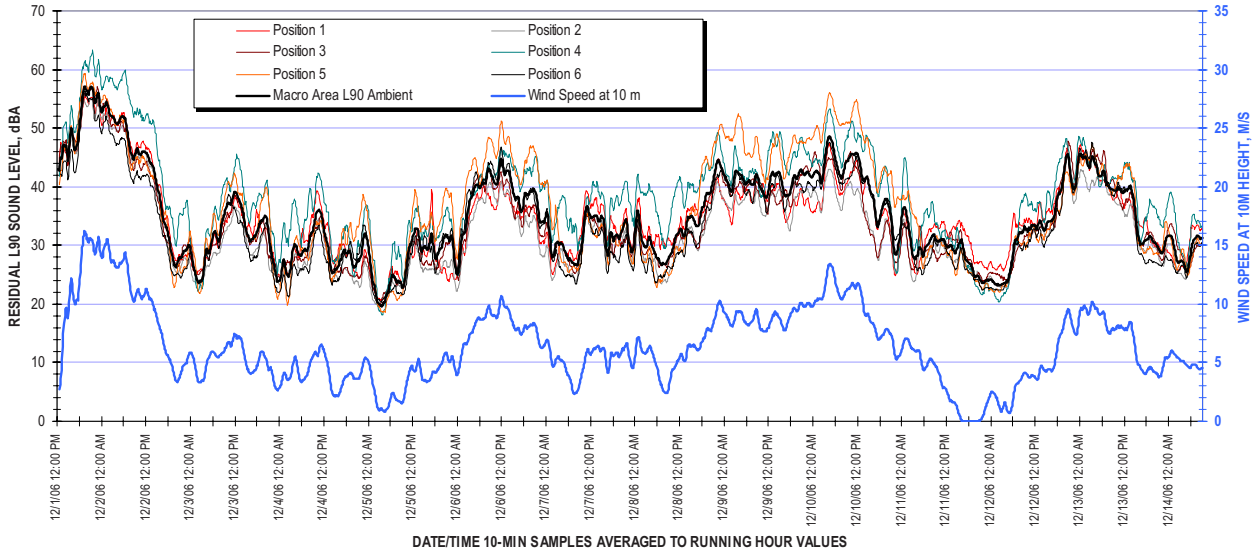



*Fig. 1—Measured residual LA90 ambient sound levels at six widely spaced locations in a quiet rural area compared to wind speed over a 13 day period.*

levels that occur during moderate winds are of the most interest. Reference 1 offers techniques for measuring wind turbine sources using a ground plane microphone setup to eliminate wind induced noise, but background baseline measurements are made above grade with wind.

In general, experience with (insect-free) wintertime surveys at rural sites indicates that there is normally an


*Fig. 2—Photographs of nine microphone test configurations.*

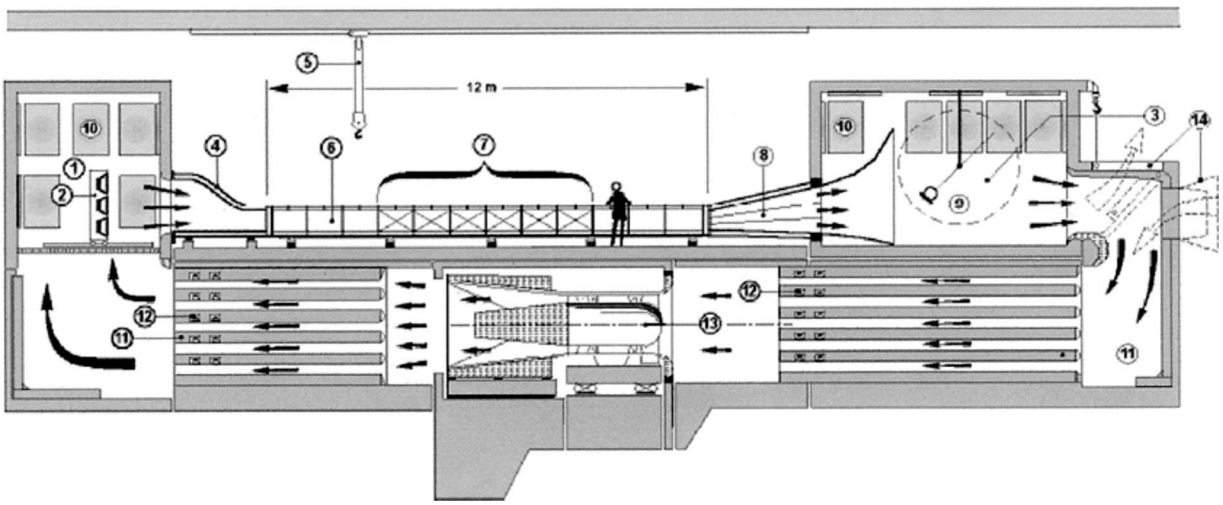



*Fig. 3—Cross sectional elevation view of silencer test facility.*

excellent correlation between wind speeds and the ambient residual (L90) sound levels as shown on Fig. 1. Of course, such a high degree of correlation could result if the microphone response was dominated by wind-induced turbulence effects around the microphone as opposed to the true ambient sound level signal. Hence, the purpose of this study is to quantitatively address this uncertainty and determine, for a number of common windscreens types, if/when any substantial contamination occurs over a range of wind speeds.

Nine microphone configurations, as illustrated in Fig. 2, were tested under controlled conditions in a wind tunnel duct using quiet airflow only, artificial noise only (at three volumes) and airflow plus artificial noise. Ninety degree incidence is used to duplicate ambient sound measurement survey techniques, but the nose cone (B&K model UA 0386) was aimed into the flow stream. Windscreens for tests 3, 4, 8 and 9 are products available for long-term outdoor monitoring. The foam ball ACO Pacific models (tests 8 and 9) are specifically treated to shed rain water while the other foam balls are not intended for outdoor rain exposure. Measurements were carried out at duct velocities of 2.5, 5, 10, 20 and 30 m/s (8, 16, 33, 66 and 98 ft/s, or 6, 11, 22, 45 and 67 mph). The test results are also useful for determining flow turbulence effects when measuring industrial noise sources in the presence of airflow, as well as for outdoor environmental measurements.

The test program was carried out at the Fraunhofer Institute of Building Physics located in Stuttgart, Germany at their aero-acoustic wind tunnel illustrated on Fig. 3. Note the large silencers on the inlet and exhaust path of the airflow fan and the structural isolation of the test duct. The airflow delivered to the duct test section is essentially free of fan noise or is "quiet" air. The airflow in the duct cross section has an even distribution without swirl or turbulences as it is supplied through a stilling chamber and an air inlet profile. The duct cross section of 1 m by 0.5 m was held constant over the complete length for all measurements. In this way re-generated noise was kept at a minimum. Measurements were made with a Norsonic 840 Analyzer, Norsonic Model 1201 preamp and 1/2 inch (13 mm) diameter Model 1225 microphone.

## 2 LOW FREQUENCY TURBULENCE EFFECTS - FLOW MEASUREMENTS

The raw measured data for all configurations at the five airflow speeds are plotted on Fig. 4. It is certainly not news, but the data clearly demonstrate that even the most modest foam windscreen should always be used when outdoors, since it dramatically improves the low and mid frequency microphone response. Because the extreme low frequencies are significantly affected by flow induced noise even at fairly low wind speeds, these plots also show that whenever low level very low frequency or C-weighted sound levels must be measured outdoors such measurements should only be carried out under completely calm conditions.

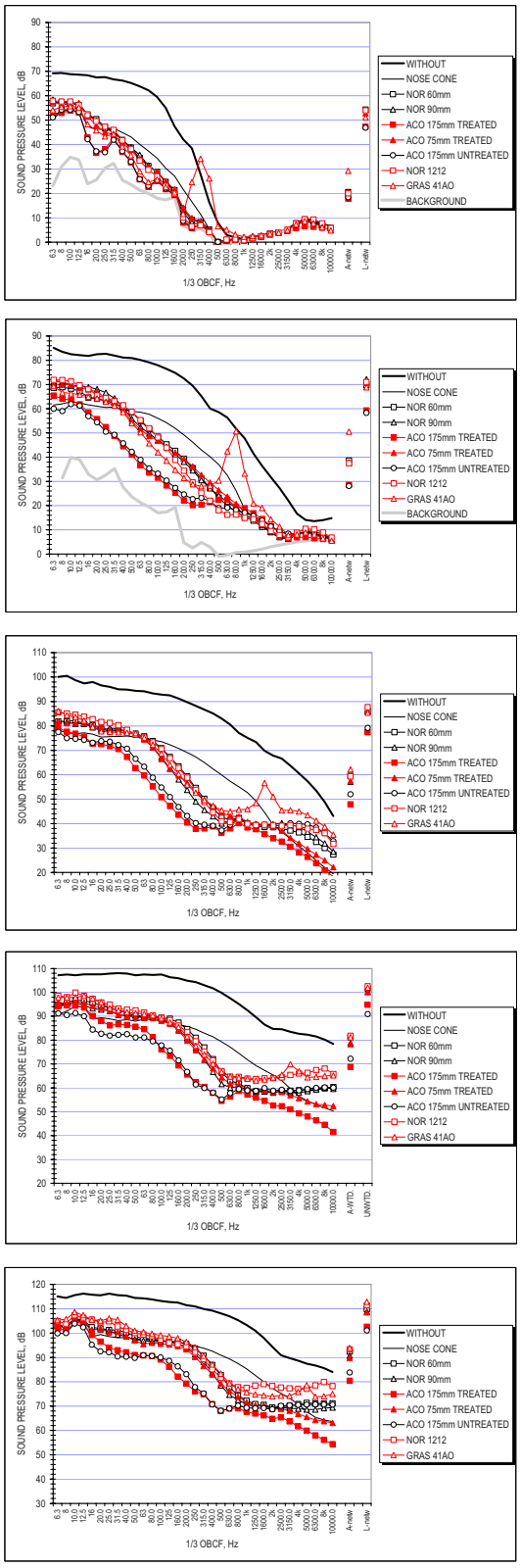



*Fig. 4—Measured microphone response at five velocities (2.5, 5. 10, 20 and* 30 m/s*, graph a through e).*

The second trend immediately noticeable is that the two larger (175 mm diameter) windscreens are significantly better at reducing flow induced noise at low and

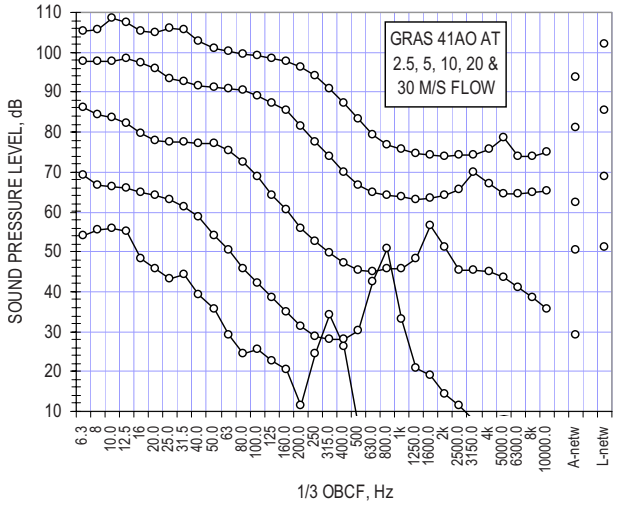



*Fig. 5—Graph showing flow generated tonal noise associated with the gap between foam and wire.*

mid frequencies. Flow-induced noise levels are on the order of 10 dB lower for this type of windscreen than they are for all others. Prior studies have shown this relationship and an excellent analytical study and summary of microphone response to turbulence is presented by van den Berg in Ref. 2. This testing quantifies the improvement and low frequency performance for readily available current wind protection products.

All of the plots, but particularly the lower wind speed cases, show a tonal aberration for the GRAS model 41AO windscreen. A frequency shift with wind velocity can clearly be seen in Fig. 5, which shows only the results for this model windscreen at all five wind speeds. This behavior was initially attributed to vortex shedding from the bird spike wires (each 1.5 mm in diameter) where the frequency may be calculated by the well known equation:

$$f = Sv/d \qquad (1)$$

where,
S=the Strouhal number of 0.2
v=velocity, m/s
d=diameter, m
This calculation indicated that the 315, 630, 1250, 2500 and 5000 Hz 1/3 octave bands would be excited by vortex shedding, but the actual measurements showed that the affected bands were 315, 800, 1600, 3150 and 5000 Hz. Further diagnostic testing demonstrated that the peaks are caused by the gap between the

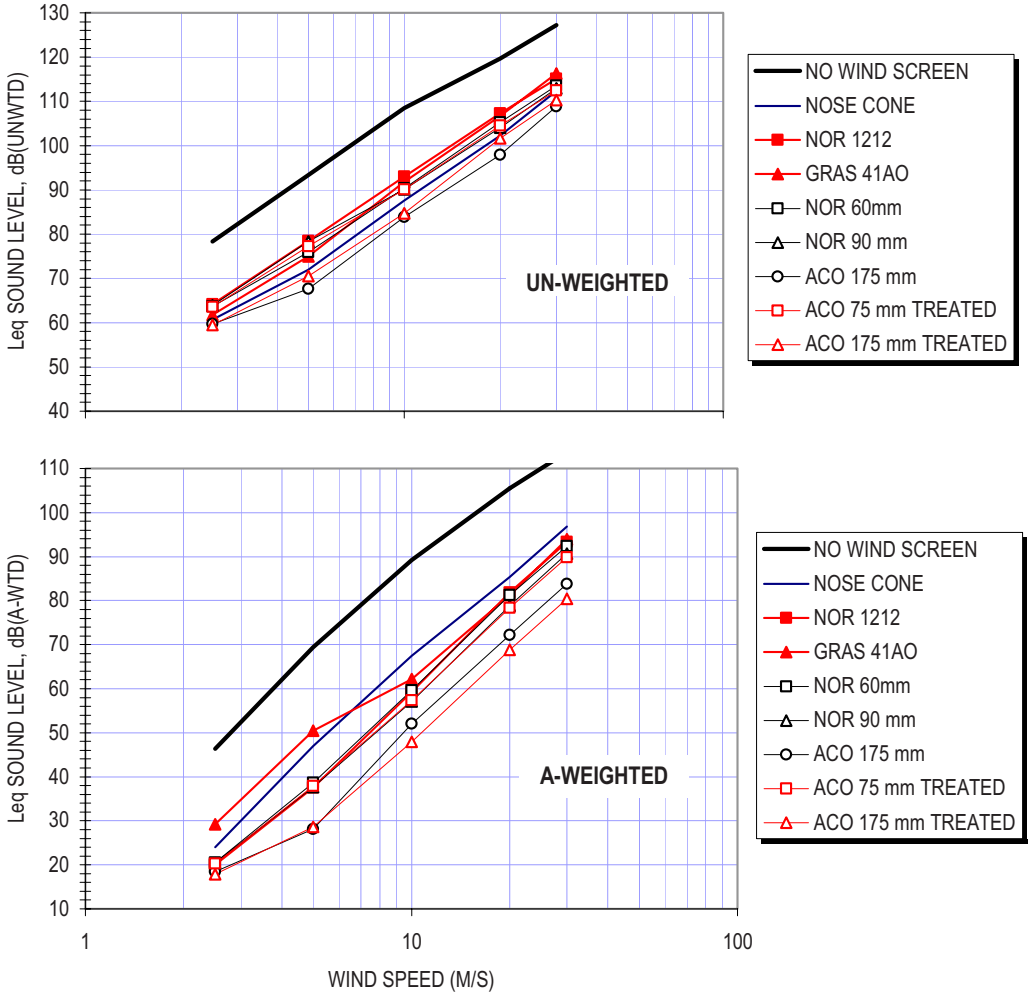



*Fig. 6—Plot of overall flow noise response for windscreen models. Upper: Un-weighted level, Lower: A-weighted level.*

wire bird spike base and the top of the windscreen. Apparently small mini-jets are created by this gap and it was found that this noise could be reduced by a closer fit between the foam screen and the wire. The gap should be eliminated when employing this model for monitoring.

Figure 6 plots the overall measured values of flow-generated noise as a function of air flow velocity. When plotted on a logarithmic scale, the data show a linear increase with velocity for all models. The overall, un-weighted sound level slope is a $v^5$ relationship, or approximately a 15 dB increase for each doubling of velocity, whereas the A-weighted results are a $v^6$ relationship, or approximately 18 dBA increase per doubling. Table 1 tabulates the overall measured values at each velocity for each model windscreen. These data can be used to derive a logarithmic expression for the self-generated noise level as a function of wind speed for any of the tested windscreens. For example, data for the treated ACO 175 mm windscreen leads to the following approximate equation for estimating the A-weighted flow induced noise level for the wind speed at the microphone location. Wind speed at 10 m elevation is the standardized elevation for rating wind turbines as given in Ref. 1 but this equation applies at the microphone location.

$$L_{fin} = 27.4 \ln(v) - 10.7, \text{ dBA} \qquad (2)$$

where,

$L_{fin}$=the A-weighted flow-induced-noise level due only to wind

v=the wind speed at the microphone, m/s

*Table 1—Measured overall levels for microphone response with and without windscreens at five velocity settings. Lowest response results are for the* 175 mm *size windscreens.*

| | | FLOW SPEED M/S (MPH) | | | | |
|---|---|---|---|---|---|---|
| A-WTD | | 2.5 | 5 | 10 | 20 | 30 |
| T1 | NO WIND SCREEN | 46 | 69 | 89 | 106 | 114 |
| T2 | NOSE CONE | 24 | 47 | 68 | 85 | 97 |
| T3 | NOR 1212 | 20 | 38 | 59 | 82 | 93 |
| T4 | GRAS 41AO | 29 | 51 | 62 | 81 | 94 |
| T5 | NOR 60 mm | 21 | 39 | 60 | 81 | 92 |
| T6 | NOR 90 mm | 20 | 38 | 57 | 79 | 91 |
| T7 | ACO 175 mm | 18 | 28 | 52 | 72 | 84 |
| T8 | ACO 75 mm TREATED | 20 | 38 | 57 | 78 | 90 |
| T9 | ACO 175 mm TREATED | 18 | 29 | 48 | 69 | 80 |
| UNWTD | | FLOW SPEED M/S (MPH) | | | | |
| | | 2.5 | 5 | 10 | 20 | 30 |
| T1 | NO WIND SCREEN | 78 | 93 | 109 | 120 | 127 |
| T2 | NOSE CONE | 61 | 72 | 88 | 102 | 112 |
| T3 | NOR 1212 | 64 | 79 | 93 | 107 | 115 |
| T4 | GRAS 41AO | 62 | 75 | 92 | 107 | 116 |
| T5 | NOR 60 mm | 64 | 76 | 90 | 105 | 114 |
| T6 | NOR 90 mm | 64 | 78 | 90 | 104 | 113 |
| T7 | ACO 175 mm | 60 | 68 | 84 | 98 | 109 |
| T8 | ACO 75 mm TREATED | 64 | 77 | 90 | 105 | 113 |
| T9 | ACO 175 mm TREATED | 60 | 71 | 85 | 102 | 110 |

## 3 ATTENUATION EFFECTS – ARTIFICIAL NOISE MEASUREMENTS

The measured sound levels in the duct at three volumes of artificial loud speaker noise (without any airflow) are plotted in Fig. 7. The fairly significant response variances at frequencies below 50 Hz are attributable to longitudinal in-duct resonances. Variable levels of external low frequency background noise outside the test duct at the facility may have also contributed to the scatter and loudspeaker output is poor at frequencies below 20 Hz. An improved signal to background noise ratio is suspected as the reason for better data grouping at the highest volume. There is no reason to believe that windscreens have any attenuation or amplification effects at these low frequencies. To verify this, testing was repeated in the facilities anechoic free-field environment. Figure 8 plots the raw data for this test and it is readily apparent that the low frequency variations are absent for a free progressive wave in an anechoic room as opposed to the wave front in a duct containing lateral reflections.

At the high end of the frequency spectrum the plots consistently show the same, model-dependent trends such as the significant attenuation of the ACO 175 mm treated windscreen at all frequencies above about 1250 Hz. Figure 9 shows the averaged attenuation for the three volumes in 1/3 octave bands for all windscreen models tested. Negative attenuation, or amplification of the signal, is significant for the nose cone and Nor 1212 outdoor windscreen. Table 2 tabulates the measured attenuations.

In general, the relatively large high frequency attenuation associated with the ACO 175 mm treated windscreen means that any un-corrected measurements made with it would be somewhat lower on an overall A-weighted basis than the actual value and therefore conservative in background survey applications. The overall noise reduction of this windscreen would depend on the frequency spectrum shape of the sound being measured but appears to be in 2 to 5 dBA range (neglecting any possible counteracting increases due to wind-induced effects). This low-pass filter quality could actually be beneficial in cases where unwanted summertime insect noise (generally above 2 kHz) is present. This contamination would be automatically

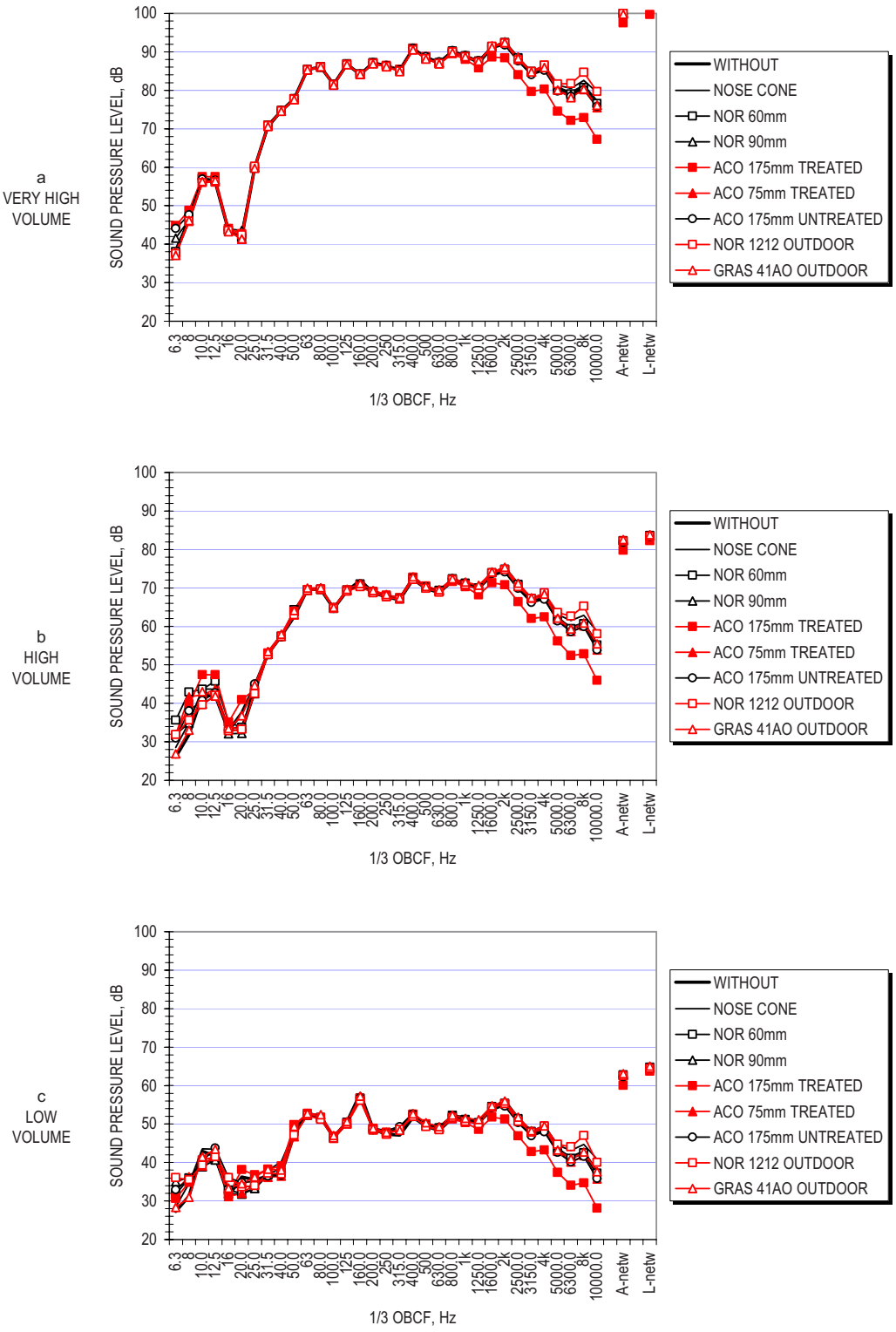



*Fig. 7—Measured response with three volumes of artificial noise in the duct.*

minimized, though not necessarily eliminated, through the use of this windscreen

## 4 FLOW AND NOISE MEASUREMENTS

The combined flow and noise measurements serve to illustrate the accuracy of the measurements and the benefits of using windscreens. Figure 10 plots the flow only, noise only and the combined flow and noise measurements for three cases: no windscreen, minimum diameter and maximum diameter foam windscreens. The point where the flow only and noise only traces cross essentially defines the minimum

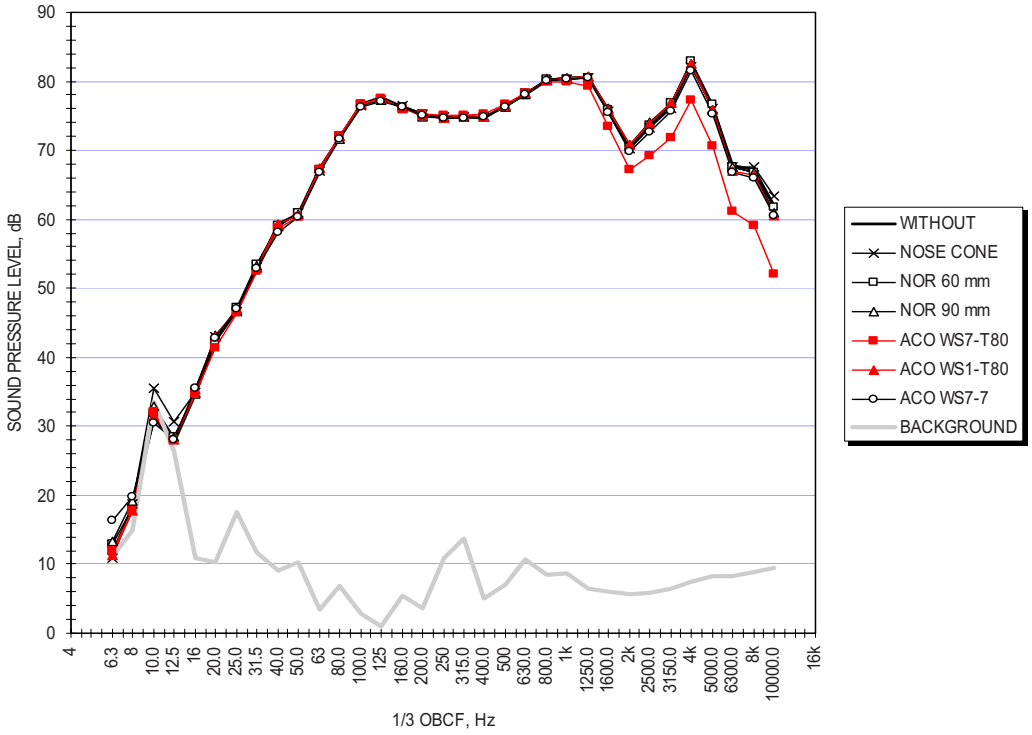



*Fig. 8—Measured sound pressure spectra for five windscreen models in an anechoic chamber.*

frequency at which valid data can be measured during, in this case, a 10 m/s wind. Without a windscreen, almost the entire spectrum (0 to 6300 Hz) is dominated by the 10 m/s flow noise. At the same 10 m/s flow speed; however, accurate measurements can be made in all bands above 125 Hz using only a 60 mm windscreen. The frequency response is improved to above 50 Hz using the largest (175 mm) windscreen.

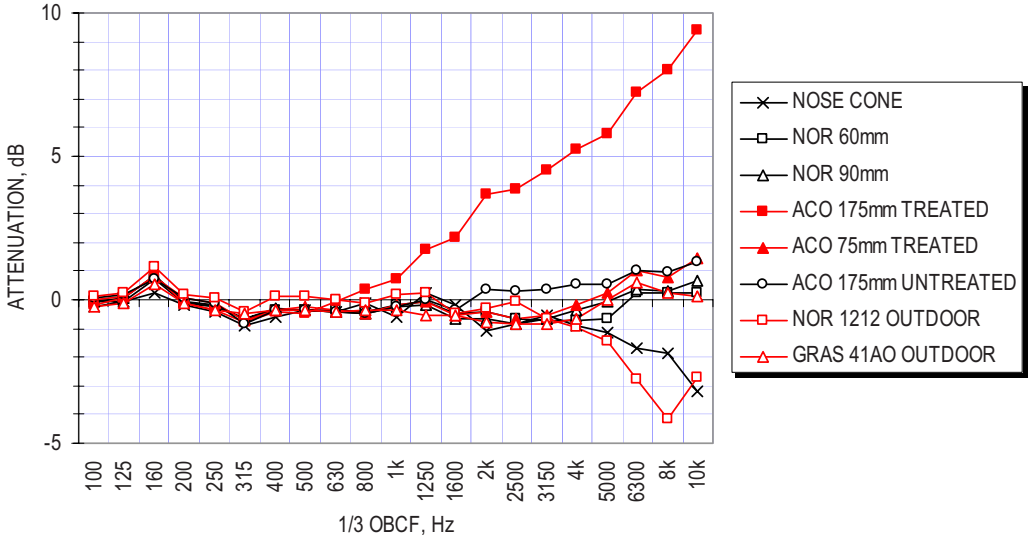



*Fig. 9—Measured microphone response attenuation for windscreen models for 90 degree sound incidence.*

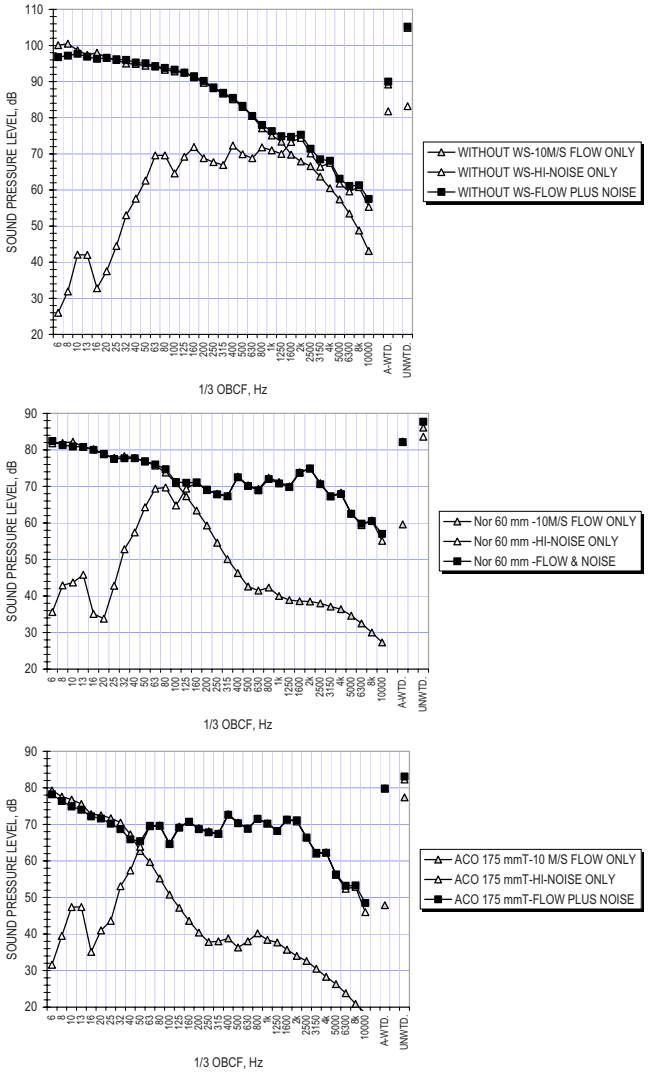



*Fig. 10—Flow only, noise only and flow and noise measurements.*

## 5 CONCLUSIONS AND RECOMMENDATIONS

The data show that reasonably good results when measuring in low to moderate wind conditions are possible even with conventional 60 mm windscreens, but that a larger (175 mm) diameter windscreen offers significantly better performance in the lower frequencies.

In the special case of background sound level surveys for wind turbine projects, where the objective is to determine the environmental sound level/masking level as a function of wind speed, the suggested practice based on this lab study is to use a large 175 mm windscreen and mount the microphone at a maximum elevation of about 1 m above grade. This latter step helps ensure that the microphone is exposed to relatively low wind speeds, since the nominal wind velocity profile, Eqn. (7) in Ref. 1 has a parabolic shape where the velocity decreases rapidly near the ground – theoretically going to zero at the surface. For example, a wind speed of 10 m/s (22.4 mph) measured at a standardized elevation of 10 m would translate to a nominal speed of 5.6 m/s (12.5 mph) at only 1 m above the surface. The wind speed range of most relevance to wind turbine analyses is usually in the 5 to 8 m/s range as measured at 10 m; consequently, a microphone at 1 m would be exposed to nominal flow velocities of 2.8 m/s (6.3 mph) to 4.5 m/s (10.1 mph) where the A-weighted flow induced noise levels would

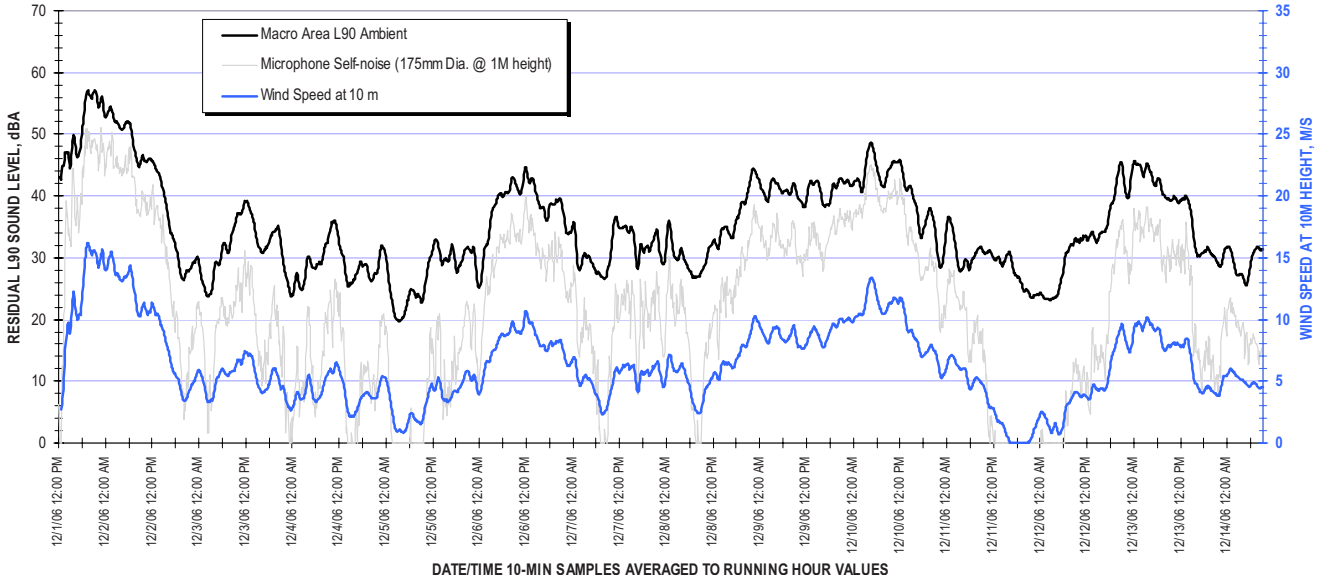



*Fig. 11—Measured community ambient level compared to estimated microphone response to wind.*

*Table 2—Measured attenuation for windscreen models, 90 degree sound incidence.*

| 1/3 OBCF, Hz | NOR 60 mm | NOR 90 mm | ACO 175 mm TREATED | ACO 75 mm TREATED | ACO 175 mm UNTREATED | NOR1212 OUTDOOR | GRAS41AO OUTDOOR | NOSE CONE |
|---|---|---|---|---|---|---|---|---|
| **100** | 0.0 | −0.1 | −0.2 | 0.0 | 0.1 | 0.1 | −0.2 | −0.2 |
| **125** | −0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | −0.1 | −0.1 |
| **160** | 0.7 | 0.9 | 0.8 | 0.8 | 0.7 | 1.2 | 0.5 | 0.2 |
| **200** | −0.1 | 0.0 | −0.1 | 0.0 | 0.1 | 0.2 | −0.1 | −0.2 |
| **250** | −0.2 | −0.2 | −0.4 | −0.1 | −0.1 | 0.0 | −0.3 | −0.4 |
| **315** | −0.7 | −0.6 | −0.8 | −0.7 | −0.8 | −0.4 | −0.5 | −0.9 |
| **400** | −0.4 | −0.3 | −0.4 | −0.3 | −0.4 | 0.1 | −0.4 | −0.6 |
| **500** | −0.3 | −0.3 | −0.5 | −0.2 | −0.3 | 0.1 | −0.3 | −0.3 |
| **630** | −0.4 | −0.4 | 0.0 | −0.4 | −0.4 | 0.0 | −0.4 | −0.4 |
| **800** | −0.4 | −0.5 | 0.4 | −0.5 | −0.5 | −0.1 | −0.3 | −0.1 |
| **1K** | −0.2 | −0.2 | 0.7 | −0.2 | −0.2 | 0.2 | −0.3 | −0.6 |
| **1250** | 0.0 | −0.2 | 1.8 | −0.1 | 0.0 | 0.3 | −0.5 | 0.3 |
| **1600** | −0.5 | −0.6 | 2.2 | −0.6 | −0.3 | −0.5 | −0.6 | −0.2 |
| **2K** | −0.4 | −0.7 | 3.7 | −0.4 | 0.3 | −0.3 | −0.8 | −1.1 |
| **2500** | −0.6 | −0.8 | 3.8 | −0.7 | 0.3 | 0.0 | −0.8 | −0.8 |
| **3150** | −0.7 | −0.6 | 4.5 | −0.5 | 0.3 | −0.7 | −0.8 | −0.6 |
| **4K** | −0.7 | −0.3 | 5.3 | −0.2 | 0.5 | −1.0 | −0.7 | −0.9 |
| **5K** | −0.6 | −0.1 | 5.8 | 0.2 | 0.6 | −1.5 | 0.0 | −1.1 |
| **6300** | 0.2 | 0.3 | 7.2 | 1.0 | 1.0 | −2.8 | 0.6 | −1.7 |
| **8K** | 0.2 | 0.3 | 8.0 | 0.8 | 1.0 | −4.1 | 0.2 | −1.9 |
| **10K** | 0.3 | 0.7 | 9.4 | 1.5 | 1.3 | −2.7 | 0.1 | −3.2 |

range from 18 to 31 dBA. Such levels are low to insignificant even compared to the quiet environmental sound levels that commonly exist in rural areas.

As an example, the self-noise sound levels associated with the field data illustrated in Figure 1 have been calculated from Eqn. (2) above (based on the 10 m wind data converted to 1 m) and used to correct the sound levels actually measured. The measured and corrected sound levels are plotted in Fig. 11. Since the microphone flow induced noise response alone is frequently 8 to 10 dBA below the measured levels, the adjustment is minimal in most instances (=< 0.5 dBA) and therefore considered insignificant.

## 6 ACKNOWLEDGEMENTS

The author wishes to acknowledge both the technical and financial assistance provided by the Norsonic in Germany, Scantek, Inc., GRAS and ACO Pacific in the U.S.

## 7 REFERENCES

1. International Standard IEC 61400-11, *Wind turbine generator systems – Part 11: "Acoustic noise measurement techniques"*, 2nd edition 2002–12, (2002).
2. G. P. van den Berg, "The sound of high winds: the effect of atmospheric stability on wind turbine sound and microphone noise." Ph.D. Thesis, National University of Groningen, The Netherlands, (2006).

# Appendix B

## Certificates of Sound Level Instrument Calibration

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

HAND-HELD ANALYZER

| | |
|---|---|
| Manufactured by: | BRUEL & KJAER |
| Model No: | 2250 |
| Serial No: | 3025302 |
| Calibration Recall No: | 33497 |

Submitted By:

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 2250 BRUE

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 10-Nov-22 |
| Certificate Issue Date: | 10-Nov-22 |
| Certificate No: | 33497 - 5 |

QA Doc. #1051 Rev. 3.0 5/29/20



ISO/IEC 17025

ACCREDITED

Calibration Lab. Cert. # 1533.01

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

MICROPHONE

| | |
|---|---|
| Manufactured by: | BRUEL & KJAER |
| Model No: | 4952 |
| Serial No: | 3179704 |
| Calibration Recall No: | 33497 |

Submitted By:

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

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West Caldwell Calibration Laboratories Procedure No. 4952 BRUE

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
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West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 10-Nov-22 |
| Certificate Issue Date: | 10-Nov-22 |
| Certificate No: | 33497 -6 |



ISO/IEC 17025

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West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

**PRECISION INTEGRATING SOUND LEVEL METER**

| | |
|---|---|
| Manufactured by: | LARSON DAVIS |
| Model No: | 831 |
| Serial No: | 0004374 |
| Calibration Recall No: | 33921 |

**Submitted By:**

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 831 LARS

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

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Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 21-Mar-23 |
| Certificate Issue Date: | 21-Mar-23 |
| Certificate No: | 33921 -4 |

QA Doc. #1051 Rev. 3.0 5/29/20



ISO/IEC 17025

ACCREDITED

Calibration Lab. Cert. # 1533.01

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

**MICROPHONE**

| | |
|---|---|
| Manufactured by: | PCB PIEZOTRONICS |
| Model No: | 377C20 |
| Serial No: | 319397 |
| Calibration Recall No: | 33921 |

**Submitted By:**

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 377C20 PCB PI

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 21-Mar-23 |
| Certificate Issue Date: | 21-Mar-23 |
| Certificate No: | 33921 -6 |

QA Doc. #1051 Rev. 3.0 5/29/20



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West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

PRECISION INTEGRATING SOUND LEVEL METER

| | |
|---|---|
| Manufactured by: | LARSON DAVIS |
| Model No: | 831 |
| Serial No: | 0003751 |
| Calibration Recall No: | 33881 |

Submitted By:

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 831 LARS

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 23-Mar-23 |
| Certificate Issue Date: | 30-Mar-23 |
| Certificate No: | 33881 -1 |

QA Doc. #1051 Rev. 3.0 5/29/20



ISO/IEC 17025

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# Certificate of Calibration

for

MICROPHONE

| | |
|---|---|
| Manufactured by: | PCB |
| Model No: | 377C20 |
| Serial No: | 162996 |
| Calibration Recall No: | 33881 |

Submitted By:

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 377C20 PCB

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 23-Mar-23 |
| Certificate Issue Date: | 30-Mar-23 |
| Certificate No: | 33881 -3 |

QA Doc. #1051 Rev. 3.0 5/29/20



ISO/IEC 17025

ACCREDITED

Calibration Lab. Cert. # 1533.01

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

**PRECISION INTEGRATING SOUND LEVEL METER**

| | |
|---|---|
| Manufactured by: | LARSON DAVIS |
| Model No: | 831C |
| Serial No: | 11182 |
| Calibration Recall No: | 34159 |

**Submitted By:**

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 831C LARS

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 08-Jun-23 |
| Certificate Issue Date: | 09-Jun-23 |
| Certificate No: | 34159 -1 |

QA Doc. #1051 Rev. 3.0 5/29/20



ISO/IEC 17025

ACCREDITED

Calibration Lab. Cert. # 1533.01

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

## West Caldwell Calibration Laboratories Inc.

# Certificate of Calibration

for

**MICROPHONE**

| | |
|---|---|
| Manufactured by: | PCB PIEZOTRONICS |
| Model No: | 377B20 |
| Serial No: | 112256 |
| Calibration Recall No: | 34159 |

**Submitted By:**

| | |
|---|---|
| Customer: | ANTHONY SAVINO JR. |
| Company: | EPSILON ASSOCIATES, INC |
| Address: | 3 MILL & MAIN PLACE |
| | MAYNARD MA 01754 |

The subject instrument was calibrated to the indicated specification using standards traceable to the SI through the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. 377B20 PCB PI

Upon receipt for Calibration, the instrument was found to be:

Within ( X )

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied certifies that the item listed above meets acceptance criteria under the decision rule: A=(L-(U95)), where A is the acceptance criteria, L is manufacturer specifications, and U95 is confidence level of 95% at k=2. The decision rule has been communicated and approved by customer during contract review. Measurements marked with (*) are not covered by the scope of current A2LA accreditation.

West Caldwell Calibration Laboratories' calibration control system meets the following requirements: ANSI/NCSL Z540-1, ISO 9001, and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

James Zhu

Quality Manager

| | |
|---|---|
| Calibration Date: | 08-Jun-23 |
| Certificate Issue Date: | 09-Jun-23 |
| Certificate No: | 34159 -3 |

QA Doc. #1051 Rev. 3.0 5/29/20



ISO/IEC 17025

ACCREDITED

Calibration Lab. Cert. # 1533.01

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.

# Appendix C

## SUNY MesoNet Meteorological Data

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230816T000000 | 2023 | 08 | 16 | 00:00 | 67.6 | 97.8 | 0 |
| 20230816T000500 | 2023 | 08 | 16 | 00:05 | 67.5 | 97.8 | 0 |
| 20230816T001000 | 2023 | 08 | 16 | 00:10 | 67.6 | 97.9 | 0 |
| 20230816T001500 | 2023 | 08 | 16 | 00:15 | 67.6 | 97.9 | 0 |
| 20230816T002000 | 2023 | 08 | 16 | 00:20 | 67.5 | 97.8 | 0 |
| 20230816T002500 | 2023 | 08 | 16 | 00:25 | 67.4 | 97.8 | 0 |
| 20230816T003000 | 2023 | 08 | 16 | 00:30 | 67.4 | 97.9 | 0 |
| 20230816T003500 | 2023 | 08 | 16 | 00:35 | 67.4 | 97.9 | 0 |
| 20230816T004000 | 2023 | 08 | 16 | 00:40 | 67.4 | 97.9 | 0 |
| 20230816T004500 | 2023 | 08 | 16 | 00:45 | 67.4 | 97.9 | 0 |
| 20230816T005000 | 2023 | 08 | 16 | 00:50 | 67.5 | 98 | 0 |
| 20230816T005500 | 2023 | 08 | 16 | 00:55 | 67.5 | 98 | 0 |
| 20230816T010000 | 2023 | 08 | 16 | 01:00 | 67.6 | 98 | 0 |
| 20230816T010500 | 2023 | 08 | 16 | 01:05 | 67.6 | 98 | 0 |
| 20230816T011000 | 2023 | 08 | 16 | 01:10 | 67.5 | 98 | 0 |
| 20230816T011500 | 2023 | 08 | 16 | 01:15 | 67.5 | 98 | 0 |
| 20230816T012000 | 2023 | 08 | 16 | 01:20 | 67.5 | 98 | 0 |
| 20230816T012500 | 2023 | 08 | 16 | 01:25 | 67.5 | 98 | 0 |
| 20230816T013000 | 2023 | 08 | 16 | 01:30 | 67.5 | 98 | 0 |
| 20230816T013500 | 2023 | 08 | 16 | 01:35 | 67.6 | 98.1 | 0 |
| 20230816T014000 | 2023 | 08 | 16 | 01:40 | 67.6 | 98.1 | 0 |
| 20230816T014500 | 2023 | 08 | 16 | 01:45 | 67.6 | 98.1 | 0 |
| 20230816T015000 | 2023 | 08 | 16 | 01:50 | 67.5 | 98.1 | 0 |
| 20230816T015500 | 2023 | 08 | 16 | 01:55 | 67.5 | 98.1 | 0 |
| 20230816T020000 | 2023 | 08 | 16 | 02:00 | 67.5 | 98.1 | 0 |
| 20230816T020500 | 2023 | 08 | 16 | 02:05 | 67.5 | 98.1 | 0 |
| 20230816T021000 | 2023 | 08 | 16 | 02:10 | 67.5 | 98.1 | 0 |
| 20230816T021500 | 2023 | 08 | 16 | 02:15 | 67.5 | 98.1 | 0 |
| 20230816T022000 | 2023 | 08 | 16 | 02:20 | 67.5 | 98.1 | 0 |
| 20230816T022500 | 2023 | 08 | 16 | 02:25 | 67.5 | 98 | 0 |
| 20230816T023000 | 2023 | 08 | 16 | 02:30 | 67.4 | 98.1 | 0 |
| 20230816T023500 | 2023 | 08 | 16 | 02:35 | 67.3 | 98 | 0 |
| 20230816T024000 | 2023 | 08 | 16 | 02:40 | 67.1 | 98.1 | 0 |
| 20230816T024500 | 2023 | 08 | 16 | 02:45 | 67.1 | 98 | 0 |
| 20230816T025000 | 2023 | 08 | 16 | 02:50 | 67.1 | 98.1 | 0 |
| 20230816T025500 | 2023 | 08 | 16 | 02:55 | 67.1 | 98.1 | 0 |
| 20230816T030000 | 2023 | 08 | 16 | 03:00 | 67.2 | 98.1 | 0 |
| 20230816T030500 | 2023 | 08 | 16 | 03:05 | 67.1 | 98.1 | 0 |
| 20230816T031000 | 2023 | 08 | 16 | 03:10 | 67 | 98.1 | 0 |
| 20230816T031500 | 2023 | 08 | 16 | 03:15 | 66.5 | 98.1 | 0 |
| 20230816T032000 | 2023 | 08 | 16 | 03:20 | 66.4 | 98 | 0 |
| 20230816T032500 | 2023 | 08 | 16 | 03:25 | 65.9 | 97.9 | 0 |
| 20230816T033000 | 2023 | 08 | 16 | 03:30 | 66.1 | 98.2 | 0 |
| 20230816T033500 | 2023 | 08 | 16 | 03:35 | 66.5 | 98.2 | 0 |
| 20230816T034000 | 2023 | 08 | 16 | 03:40 | 66.6 | 98 | 0 |
| 20230816T034500 | 2023 | 08 | 16 | 03:45 | 66.7 | 97.8 | 0 |
| 20230816T035000 | 2023 | 08 | 16 | 03:50 | 66.7 | 97.6 | 0 |
| 20230816T035500 | 2023 | 08 | 16 | 03:55 | 66.5 | 97.2 | 0 |
| 20230816T040000 | 2023 | 08 | 16 | 04:00 | 66.4 | 97.1 | 0 |
| 20230816T040500 | 2023 | 08 | 16 | 04:05 | 66.5 | 96.9 | 0 |
| 20230816T041000 | 2023 | 08 | 16 | 04:10 | 66.6 | 96.6 | 0 |
| 20230816T041500 | 2023 | 08 | 16 | 04:15 | 66.4 | 96.3 | 0 |
| 20230816T042000 | 2023 | 08 | 16 | 04:20 | 66.4 | 96.1 | 0 |
| 20230816T042500 | 2023 | 08 | 16 | 04:25 | 66.5 | 95.8 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230816T043000 | 2023 | 08 | 16 | 04:30 | 66.8 | 95.6 | 0 |
| 20230816T043500 | 2023 | 08 | 16 | 04:35 | 66.9 | 95.3 | 0 |
| 20230816T044000 | 2023 | 08 | 16 | 04:40 | 67 | 95.4 | 0 |
| 20230816T044500 | 2023 | 08 | 16 | 04:45 | 67.1 | 95.3 | 0 |
| 20230816T045000 | 2023 | 08 | 16 | 04:50 | 66.9 | 95.2 | 0 |
| 20230816T045500 | 2023 | 08 | 16 | 04:55 | 66.6 | 95.6 | 0 |
| 20230816T050000 | 2023 | 08 | 16 | 05:00 | 66.5 | 95.9 | 0 |
| 20230816T050500 | 2023 | 08 | 16 | 05:05 | 66.7 | 96.1 | 0 |
| 20230816T051000 | 2023 | 08 | 16 | 05:10 | 67 | 96.1 | 0 |
| 20230816T051500 | 2023 | 08 | 16 | 05:15 | 67.1 | 95.9 | 0 |
| 20230816T052000 | 2023 | 08 | 16 | 05:20 | 67.1 | 95.7 | 0 |
| 20230816T052500 | 2023 | 08 | 16 | 05:25 | 67.1 | 95.5 | 0 |
| 20230816T053000 | 2023 | 08 | 16 | 05:30 | 67 | 95.4 | 0 |
| 20230816T053500 | 2023 | 08 | 16 | 05:35 | 66.9 | 95.3 | 0 |
| 20230816T054000 | 2023 | 08 | 16 | 05:40 | 66.9 | 95.2 | 0 |
| 20230816T054500 | 2023 | 08 | 16 | 05:45 | 66.9 | 95.3 | 0 |
| 20230816T055000 | 2023 | 08 | 16 | 05:50 | 66.9 | 95.2 | 0 |
| 20230816T055500 | 2023 | 08 | 16 | 05:55 | 66.8 | 95.2 | 0 |
| 20230816T060000 | 2023 | 08 | 16 | 06:00 | 66.7 | 95.3 | 0 |
| 20230816T060500 | 2023 | 08 | 16 | 06:05 | 66.7 | 95.3 | 0 |
| 20230816T061000 | 2023 | 08 | 16 | 06:10 | 66.7 | 95.2 | 0 |
| 20230816T061500 | 2023 | 08 | 16 | 06:15 | 66.8 | 94.6 | 0 |
| 20230816T062000 | 2023 | 08 | 16 | 06:20 | 67 | 93.6 | 0 |
| 20230816T062500 | 2023 | 08 | 16 | 06:25 | 67.1 | 92.4 | 0 |
| 20230816T063000 | 2023 | 08 | 16 | 06:30 | 66.9 | 92.6 | 0 |
| 20230816T063500 | 2023 | 08 | 16 | 06:35 | 66.8 | 93 | 0 |
| 20230816T064000 | 2023 | 08 | 16 | 06:40 | 66.7 | 93.2 | 0 |
| 20230816T064500 | 2023 | 08 | 16 | 06:45 | 66.4 | 94.1 | 0 |
| 20230816T065000 | 2023 | 08 | 16 | 06:50 | 66.1 | 94.9 | 0.003 |
| 20230816T065500 | 2023 | 08 | 16 | 06:55 | 66 | 95.7 | 0.003 |
| 20230816T070000 | 2023 | 08 | 16 | 07:00 | 66 | 96.2 | 0.002 |
| 20230816T070500 | 2023 | 08 | 16 | 07:05 | 66 | 96.5 | 0.003 |
| 20230816T071000 | 2023 | 08 | 16 | 07:10 | 66 | 96.6 | 0.001 |
| 20230816T071500 | 2023 | 08 | 16 | 07:15 | 66.1 | 96.8 | 0 |
| 20230816T072000 | 2023 | 08 | 16 | 07:20 | 66.2 | 96.9 | 0 |
| 20230816T072500 | 2023 | 08 | 16 | 07:25 | 66.4 | 97 | 0 |
| 20230816T073000 | 2023 | 08 | 16 | 07:30 | 66.7 | 96.9 | 0 |
| 20230816T073500 | 2023 | 08 | 16 | 07:35 | 67 | 96.9 | 0 |
| 20230816T074000 | 2023 | 08 | 16 | 07:40 | 67.1 | 96.7 | 0 |
| 20230816T074500 | 2023 | 08 | 16 | 07:45 | 67.3 | 96.7 | 0 |
| 20230816T075000 | 2023 | 08 | 16 | 07:50 | 67.5 | 96.5 | 0 |
| 20230816T075500 | 2023 | 08 | 16 | 07:55 | 67.5 | 96.3 | 0 |
| 20230816T080000 | 2023 | 08 | 16 | 08:00 | 67.4 | 96.1 | 0 |
| 20230816T080500 | 2023 | 08 | 16 | 08:05 | 67.5 | 96 | 0 |
| 20230816T081000 | 2023 | 08 | 16 | 08:10 | 67.7 | 96 | 0 |
| 20230816T081500 | 2023 | 08 | 16 | 08:15 | 67.8 | 95.5 | 0 |
| 20230816T082000 | 2023 | 08 | 16 | 08:20 | 67.6 | 95.2 | 0 |
| 20230816T082500 | 2023 | 08 | 16 | 08:25 | 67.7 | 95.4 | 0 |
| 20230816T083000 | 2023 | 08 | 16 | 08:30 | 68 | 95.7 | 0 |
| 20230816T083500 | 2023 | 08 | 16 | 08:35 | 68.3 | 95.4 | 0 |
| 20230816T084000 | 2023 | 08 | 16 | 08:40 | 68.5 | 94.8 | 0 |
| 20230816T084500 | 2023 | 08 | 16 | 08:45 | 69 | 94.9 | 0 |
| 20230816T085000 | 2023 | 08 | 16 | 08:50 | 68.8 | 94.2 | 0.008 |
| 20230816T085500 | 2023 | 08 | 16 | 08:55 | 68.2 | 94.3 | 0.015 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230816T090000 | 2023 | 08 | 16 | 09:00 | 68.1 | 94.9 | 0 |
| 20230816T090500 | 2023 | 08 | 16 | 09:05 | 68.2 | 95 | 0 |
| 20230816T091000 | 2023 | 08 | 16 | 09:10 | 68.3 | 95 | 0 |
| 20230816T091500 | 2023 | 08 | 16 | 09:15 | 68.7 | 94.8 | 0 |
| 20230816T092000 | 2023 | 08 | 16 | 09:20 | 69.2 | 94.4 | 0 |
| 20230816T092500 | 2023 | 08 | 16 | 09:25 | 69.5 | 94 | 0 |
| 20230816T093000 | 2023 | 08 | 16 | 09:30 | 69.3 | 93.3 | 0 |
| 20230816T093500 | 2023 | 08 | 16 | 09:35 | 69 | 92.6 | 0.015 |
| 20230816T094000 | 2023 | 08 | 16 | 09:40 | 68.7 | 93.6 | 0.022 |
| 20230816T094500 | 2023 | 08 | 16 | 09:45 | 68.6 | 94.3 | 0.004 |
| 20230816T095000 | 2023 | 08 | 16 | 09:50 | 68.7 | 94.1 | 0 |
| 20230816T095500 | 2023 | 08 | 16 | 09:55 | 68.8 | 93.5 | 0 |
| 20230816T100000 | 2023 | 08 | 16 | 10:00 | 68.9 | 92.3 | 0 |
| 20230816T100500 | 2023 | 08 | 16 | 10:05 | 68.9 | 91.9 | 0.003 |
| 20230816T101000 | 2023 | 08 | 16 | 10:10 | 68.6 | 92.4 | 0.069 |
| 20230816T101500 | 2023 | 08 | 16 | 10:15 | 68 | 93.3 | 0.051 |
| 20230816T102000 | 2023 | 08 | 16 | 10:20 | 67.7 | 94.5 | 0.043 |
| 20230816T102500 | 2023 | 08 | 16 | 10:25 | 67.7 | 95.1 | 0.013 |
| 20230816T103000 | 2023 | 08 | 16 | 10:30 | 67.7 | 95.4 | 0.011 |
| 20230816T103500 | 2023 | 08 | 16 | 10:35 | 67.8 | 95.5 | 0.002 |
| 20230816T104000 | 2023 | 08 | 16 | 10:40 | 68 | 95.3 | 0 |
| 20230816T104500 | 2023 | 08 | 16 | 10:45 | 68.3 | 94.8 | 0 |
| 20230816T105000 | 2023 | 08 | 16 | 10:50 | 68.4 | 94 | 0 |
| 20230816T105500 | 2023 | 08 | 16 | 10:55 | 68.6 | 93.5 | 0 |
| 20230816T110000 | 2023 | 08 | 16 | 11:00 | 68.8 | 92.5 | 0 |
| 20230816T110500 | 2023 | 08 | 16 | 11:05 | 69.1 | 92.7 | 0 |
| 20230816T111000 | 2023 | 08 | 16 | 11:10 | 69.4 | 92.3 | 0 |
| 20230816T111500 | 2023 | 08 | 16 | 11:15 | 69.5 | 91.3 | 0 |
| 20230816T112000 | 2023 | 08 | 16 | 11:20 | 70.2 | 90.7 | 0 |
| 20230816T112500 | 2023 | 08 | 16 | 11:25 | 71.6 | 89.1 | 0 |
| 20230816T113000 | 2023 | 08 | 16 | 11:30 | 72.1 | 85.8 | 0 |
| 20230816T113500 | 2023 | 08 | 16 | 11:35 | 72.3 | 84.7 | 0 |
| 20230816T114000 | 2023 | 08 | 16 | 11:40 | 72.3 | 82.1 | 0 |
| 20230816T114500 | 2023 | 08 | 16 | 11:45 | 72.2 | 82.1 | 0 |
| 20230816T115000 | 2023 | 08 | 16 | 11:50 | 72.8 | 81.4 | 0 |
| 20230816T115500 | 2023 | 08 | 16 | 11:55 | 73.4 | 80.7 | 0 |
| 20230816T120000 | 2023 | 08 | 16 | 12:00 | 73.7 | 79.2 | 0 |
| 20230816T120500 | 2023 | 08 | 16 | 12:05 | 74 | 78.7 | 0 |
| 20230816T121000 | 2023 | 08 | 16 | 12:10 | 73.8 | 75.4 | 0 |
| 20230816T121500 | 2023 | 08 | 16 | 12:15 | 74 | 74.3 | 0 |
| 20230816T122000 | 2023 | 08 | 16 | 12:20 | 74.7 | 75.4 | 0 |
| 20230816T122500 | 2023 | 08 | 16 | 12:25 | 75.4 | 74.8 | 0 |
| 20230816T123000 | 2023 | 08 | 16 | 12:30 | 74.7 | 75.6 | 0 |
| 20230816T123500 | 2023 | 08 | 16 | 12:35 | 74.2 | 76.2 | 0 |
| 20230816T124000 | 2023 | 08 | 16 | 12:40 | 73.6 | 74.7 | 0 |
| 20230816T124500 | 2023 | 08 | 16 | 12:45 | 73.1 | 75.3 | 0 |
| 20230816T125000 | 2023 | 08 | 16 | 12:50 | 73.5 | 76.8 | 0 |
| 20230816T125500 | 2023 | 08 | 16 | 12:55 | 73.9 | 75.7 | 0 |
| 20230816T130000 | 2023 | 08 | 16 | 13:00 | 74 | 74.3 | 0 |
| 20230816T130500 | 2023 | 08 | 16 | 13:05 | 74.2 | 75.3 | 0 |
| 20230816T131000 | 2023 | 08 | 16 | 13:10 | 74.2 | 74.7 | 0 |
| 20230816T131500 | 2023 | 08 | 16 | 13:15 | 74.7 | 74.1 | 0 |
| 20230816T132000 | 2023 | 08 | 16 | 13:20 | 75.3 | 73.5 | 0 |
| 20230816T132500 | 2023 | 08 | 16 | 13:25 | 75.7 | 71.6 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230816T133000 | 2023 | 08 | 16 | 13:30 | 75.7 | 72.3 | 0 |
| 20230816T133500 | 2023 | 08 | 16 | 13:35 | 76.1 | 72.6 | 0 |
| 20230816T134000 | 2023 | 08 | 16 | 13:40 | 77.5 | 67.9 | 0 |
| 20230816T134500 | 2023 | 08 | 16 | 13:45 | 77.6 | 67.5 | 0 |
| 20230816T135000 | 2023 | 08 | 16 | 13:50 | 76.7 | 66.8 | 0 |
| 20230816T135500 | 2023 | 08 | 16 | 13:55 | 77.7 | 65.8 | 0 |
| 20230816T140000 | 2023 | 08 | 16 | 14:00 | 78 | 63 | 0 |
| 20230816T140500 | 2023 | 08 | 16 | 14:05 | 78 | 63.3 | 0 |
| 20230816T141000 | 2023 | 08 | 16 | 14:10 | 78 | 63.3 | 0 |
| 20230816T141500 | 2023 | 08 | 16 | 14:15 | 78.1 | 64.6 | 0 |
| 20230816T142000 | 2023 | 08 | 16 | 14:20 | 77.9 | 63.8 | 0 |
| 20230816T142500 | 2023 | 08 | 16 | 14:25 | 78.7 | 64.8 | 0 |
| 20230816T143000 | 2023 | 08 | 16 | 14:30 | 78 | 63.5 | 0 |
| 20230816T143500 | 2023 | 08 | 16 | 14:35 | 77.7 | 62.8 | 0 |
| 20230816T144000 | 2023 | 08 | 16 | 14:40 | 78.1 | 63.4 | 0 |
| 20230816T144500 | 2023 | 08 | 16 | 14:45 | 79 | 62.4 | 0 |
| 20230816T145000 | 2023 | 08 | 16 | 14:50 | 77.9 | 62.1 | 0 |
| 20230816T145500 | 2023 | 08 | 16 | 14:55 | 76.9 | 62.8 | 0 |
| 20230816T150000 | 2023 | 08 | 16 | 15:00 | 77.4 | 62.5 | 0 |
| 20230816T150500 | 2023 | 08 | 16 | 15:05 | 78.5 | 62.1 | 0 |
| 20230816T151000 | 2023 | 08 | 16 | 15:10 | 77.8 | 61.8 | 0 |
| 20230816T151500 | 2023 | 08 | 16 | 15:15 | 78 | 62.8 | 0 |
| 20230816T152000 | 2023 | 08 | 16 | 15:20 | 77.2 | 63.9 | 0 |
| 20230816T152500 | 2023 | 08 | 16 | 15:25 | 77.3 | 66.6 | 0 |
| 20230816T153000 | 2023 | 08 | 16 | 15:30 | 79.1 | 63.4 | 0 |
| 20230816T153500 | 2023 | 08 | 16 | 15:35 | 78.9 | 61.6 | 0 |
| 20230816T154000 | 2023 | 08 | 16 | 15:40 | 78.1 | 60.1 | 0 |
| 20230816T154500 | 2023 | 08 | 16 | 15:45 | 78.5 | 59.6 | 0 |
| 20230816T155000 | 2023 | 08 | 16 | 15:50 | 78.4 | 59.9 | 0 |
| 20230816T155500 | 2023 | 08 | 16 | 15:55 | 77.7 | 61.3 | 0 |
| 20230816T160000 | 2023 | 08 | 16 | 16:00 | 77.4 | 63.7 | 0 |
| 20230816T160500 | 2023 | 08 | 16 | 16:05 | 79 | 61.8 | 0 |
| 20230816T161000 | 2023 | 08 | 16 | 16:10 | 77.9 | 60 | 0 |
| 20230816T161500 | 2023 | 08 | 16 | 16:15 | 77.8 | 61.6 | 0 |
| 20230816T162000 | 2023 | 08 | 16 | 16:20 | 77.7 | 61.8 | 0 |
| 20230816T162500 | 2023 | 08 | 16 | 16:25 | 77.5 | 64.4 | 0 |
| 20230816T163000 | 2023 | 08 | 16 | 16:30 | 78.4 | 63.7 | 0 |
| 20230816T163500 | 2023 | 08 | 16 | 16:35 | 78.9 | 60.5 | 0 |
| 20230816T164000 | 2023 | 08 | 16 | 16:40 | 79.3 | 59.1 | 0 |
| 20230816T164500 | 2023 | 08 | 16 | 16:45 | 78.6 | 61.8 | 0 |
| 20230816T165000 | 2023 | 08 | 16 | 16:50 | 78.3 | 63.1 | 0 |
| 20230816T165500 | 2023 | 08 | 16 | 16:55 | 78.4 | 62.9 | 0 |
| 20230816T170000 | 2023 | 08 | 16 | 17:00 | 78.6 | 61.7 | 0 |
| 20230816T170500 | 2023 | 08 | 16 | 17:05 | 78.7 | 62.7 | 0 |
| 20230816T171000 | 2023 | 08 | 16 | 17:10 | 78.8 | 63.8 | 0 |
| 20230816T171500 | 2023 | 08 | 16 | 17:15 | 78.4 | 64 | 0 |
| 20230816T172000 | 2023 | 08 | 16 | 17:20 | 78.7 | 62.9 | 0 |
| 20230816T172500 | 2023 | 08 | 16 | 17:25 | 78.2 | 62.7 | 0 |
| 20230816T173000 | 2023 | 08 | 16 | 17:30 | 77.4 | 65.5 | 0 |
| 20230816T173500 | 2023 | 08 | 16 | 17:35 | 78.3 | 64.2 | 0 |
| 20230816T174000 | 2023 | 08 | 16 | 17:40 | 77.2 | 65.7 | 0 |
| 20230816T174500 | 2023 | 08 | 16 | 17:45 | 78 | 65 | 0 |
| 20230816T175000 | 2023 | 08 | 16 | 17:50 | 78.1 | 64.3 | 0 |
| 20230816T175500 | 2023 | 08 | 16 | 17:55 | 77.5 | 65 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230816T180000 | 2023 | 08 | 16 | 18:00 | 77.4 | 66 | 0 |
| 20230816T180500 | 2023 | 08 | 16 | 18:05 | 77.6 | 66.1 | 0 |
| 20230816T181000 | 2023 | 08 | 16 | 18:10 | 77.3 | 66.3 | 0 |
| 20230816T181500 | 2023 | 08 | 16 | 18:15 | 76.8 | 66.8 | 0 |
| 20230816T182000 | 2023 | 08 | 16 | 18:20 | 77.1 | 66.7 | 0 |
| 20230816T182500 | 2023 | 08 | 16 | 18:25 | 77 | 66.8 | 0 |
| 20230816T183000 | 2023 | 08 | 16 | 18:30 | 77 | 66.5 | 0 |
| 20230816T183500 | 2023 | 08 | 16 | 18:35 | 76.9 | 67.1 | 0 |
| 20230816T184000 | 2023 | 08 | 16 | 18:40 | 76.7 | 66.9 | 0 |
| 20230816T184500 | 2023 | 08 | 16 | 18:45 | 76.7 | 67.3 | 0 |
| 20230816T185000 | 2023 | 08 | 16 | 18:50 | 76.5 | 67.2 | 0 |
| 20230816T185500 | 2023 | 08 | 16 | 18:55 | 76.3 | 68.5 | 0 |
| 20230816T190000 | 2023 | 08 | 16 | 19:00 | 76.4 | 68.5 | 0 |
| 20230816T190500 | 2023 | 08 | 16 | 19:05 | 76 | 69.9 | 0 |
| 20230816T191000 | 2023 | 08 | 16 | 19:10 | 76.1 | 68.4 | 0 |
| 20230816T191500 | 2023 | 08 | 16 | 19:15 | 75.8 | 68.3 | 0 |
| 20230816T192000 | 2023 | 08 | 16 | 19:20 | 75.5 | 69.4 | 0 |
| 20230816T192500 | 2023 | 08 | 16 | 19:25 | 75.4 | 69.8 | 0 |
| 20230816T193000 | 2023 | 08 | 16 | 19:30 | 75.1 | 72.3 | 0 |
| 20230816T193500 | 2023 | 08 | 16 | 19:35 | 74.6 | 73.1 | 0 |
| 20230816T194000 | 2023 | 08 | 16 | 19:40 | 74.4 | 73.6 | 0 |
| 20230816T194500 | 2023 | 08 | 16 | 19:45 | 73.6 | 72.9 | 0 |
| 20230816T195000 | 2023 | 08 | 16 | 19:50 | 72.1 | 74.6 | 0 |
| 20230816T195500 | 2023 | 08 | 16 | 19:55 | 71.7 | 78.4 | 0 |
| 20230816T200000 | 2023 | 08 | 16 | 20:00 | 71.4 | 80.7 | 0 |
| 20230816T200500 | 2023 | 08 | 16 | 20:05 | 70.7 | 82.4 | 0 |
| 20230816T201000 | 2023 | 08 | 16 | 20:10 | 69.9 | 84.7 | 0 |
| 20230816T201500 | 2023 | 08 | 16 | 20:15 | 69.5 | 85.7 | 0 |
| 20230816T202000 | 2023 | 08 | 16 | 20:20 | 69.3 | 86.4 | 0 |
| 20230816T202500 | 2023 | 08 | 16 | 20:25 | 69 | 88.6 | 0 |
| 20230816T203000 | 2023 | 08 | 16 | 20:30 | 68.6 | 90.1 | 0 |
| 20230816T203500 | 2023 | 08 | 16 | 20:35 | 68.1 | 92.1 | 0 |
| 20230816T204000 | 2023 | 08 | 16 | 20:40 | 67.9 | 92 | 0 |
| 20230816T204500 | 2023 | 08 | 16 | 20:45 | 67.5 | 91.9 | 0 |
| 20230816T205000 | 2023 | 08 | 16 | 20:50 | 67.3 | 92.3 | 0 |
| 20230816T205500 | 2023 | 08 | 16 | 20:55 | 67.1 | 92.8 | 0 |
| 20230816T210000 | 2023 | 08 | 16 | 21:00 | 67 | 93.4 | 0 |
| 20230816T210500 | 2023 | 08 | 16 | 21:05 | 66.8 | 93.6 | 0 |
| 20230816T211000 | 2023 | 08 | 16 | 21:10 | 66.6 | 94.3 | 0 |
| 20230816T211500 | 2023 | 08 | 16 | 21:15 | 66.2 | 93.8 | 0 |
| 20230816T212000 | 2023 | 08 | 16 | 21:20 | 65.9 | 93.9 | 0 |
| 20230816T212500 | 2023 | 08 | 16 | 21:25 | 66 | 94.6 | 0 |
| 20230816T213000 | 2023 | 08 | 16 | 21:30 | 65.9 | 95.1 | 0 |
| 20230816T213500 | 2023 | 08 | 16 | 21:35 | 65.8 | 95.2 | 0 |
| 20230816T214000 | 2023 | 08 | 16 | 21:40 | 65.3 | 95 | 0 |
| 20230816T214500 | 2023 | 08 | 16 | 21:45 | 65.5 | 95.6 | 0 |
| 20230816T215000 | 2023 | 08 | 16 | 21:50 | 65.7 | 96.1 | 0 |
| 20230816T215500 | 2023 | 08 | 16 | 21:55 | 65.8 | 96 | 0 |
| 20230816T220000 | 2023 | 08 | 16 | 22:00 | 64.9 | 95.8 | 0 |
| 20230816T220500 | 2023 | 08 | 16 | 22:05 | 64.8 | 96.3 | 0 |
| 20230816T221000 | 2023 | 08 | 16 | 22:10 | 64.9 | 96.6 | 0 |
| 20230816T221500 | 2023 | 08 | 16 | 22:15 | 64.3 | 96.4 | 0 |
| 20230816T222000 | 2023 | 08 | 16 | 22:20 | 64.5 | 96.6 | 0 |
| 20230816T222500 | 2023 | 08 | 16 | 22:25 | 64.3 | 96.6 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230816T223000 | 2023 | 08 | 16 | 22:30 | 64.2 | 96.7 | 0 |
| 20230816T223500 | 2023 | 08 | 16 | 22:35 | 64.4 | 96.8 | 0 |
| 20230816T224000 | 2023 | 08 | 16 | 22:40 | 64.3 | 96.9 | 0 |
| 20230816T224500 | 2023 | 08 | 16 | 22:45 | 64.1 | 96.9 | 0 |
| 20230816T225000 | 2023 | 08 | 16 | 22:50 | 64.1 | 97 | 0 |
| 20230816T225500 | 2023 | 08 | 16 | 22:55 | 63.9 | 97 | 0 |
| 20230816T230000 | 2023 | 08 | 16 | 23:00 | 63.6 | 96.9 | 0 |
| 20230816T230500 | 2023 | 08 | 16 | 23:05 | 63.2 | 96.9 | 0 |
| 20230816T231000 | 2023 | 08 | 16 | 23:10 | 63.8 | 97.3 | 0 |
| 20230816T231500 | 2023 | 08 | 16 | 23:15 | 63.5 | 97.1 | 0 |
| 20230816T232000 | 2023 | 08 | 16 | 23:20 | 63.6 | 97.3 | 0 |
| 20230816T232500 | 2023 | 08 | 16 | 23:25 | 63.3 | 97.2 | 0 |
| 20230816T233000 | 2023 | 08 | 16 | 23:30 | 63.3 | 97.4 | 0 |
| 20230816T233500 | 2023 | 08 | 16 | 23:35 | 62.7 | 97.1 | 0 |
| 20230816T234000 | 2023 | 08 | 16 | 23:40 | 62.4 | 97.3 | 0 |
| 20230816T234500 | 2023 | 08 | 16 | 23:45 | 62.5 | 97.3 | 0 |
| 20230816T235000 | 2023 | 08 | 16 | 23:50 | 62.5 | 97.6 | 0 |
| 20230816T235500 | 2023 | 08 | 16 | 23:55 | 62.6 | 97.6 | 0 |
| 20230817T000000 | 2023 | 08 | 17 | 00:00 | 62.5 | 97.5 | 0 |
| 20230817T000500 | 2023 | 08 | 17 | 00:05 | 62.6 | 97.7 | 0 |
| 20230817T001000 | 2023 | 08 | 17 | 00:10 | 62.7 | 97.6 | 0 |
| 20230817T001500 | 2023 | 08 | 17 | 00:15 | 62.3 | 97.4 | 0 |
| 20230817T002000 | 2023 | 08 | 17 | 00:20 | 62 | 97.4 | 0 |
| 20230817T002500 | 2023 | 08 | 17 | 00:25 | 62.5 | 97.6 | 0 |
| 20230817T003000 | 2023 | 08 | 17 | 00:30 | 62.2 | 97.7 | 0 |
| 20230817T003500 | 2023 | 08 | 17 | 00:35 | 62.9 | 98 | 0 |
| 20230817T004000 | 2023 | 08 | 17 | 00:40 | 62.7 | 97.8 | 0 |
| 20230817T004500 | 2023 | 08 | 17 | 00:45 | 62.5 | 97.5 | 0 |
| 20230817T005000 | 2023 | 08 | 17 | 00:50 | 61.9 | 97.5 | 0 |
| 20230817T005500 | 2023 | 08 | 17 | 00:55 | 61.9 | 97.5 | 0 |
| 20230817T010000 | 2023 | 08 | 17 | 01:00 | 62.7 | 98 | 0 |
| 20230817T010500 | 2023 | 08 | 17 | 01:05 | 63 | 98.2 | 0 |
| 20230817T011000 | 2023 | 08 | 17 | 01:10 | 63.7 | 98.3 | 0 |
| 20230817T011500 | 2023 | 08 | 17 | 01:15 | 64 | 98 | 0 |
| 20230817T012000 | 2023 | 08 | 17 | 01:20 | 64.1 | 98 | 0 |
| 20230817T012500 | 2023 | 08 | 17 | 01:25 | 64.2 | 98.1 | 0 |
| 20230817T013000 | 2023 | 08 | 17 | 01:30 | 64.2 | 98 | 0 |
| 20230817T013500 | 2023 | 08 | 17 | 01:35 | 63.9 | 97.8 | 0 |
| 20230817T014000 | 2023 | 08 | 17 | 01:40 | 64.2 | 97.8 | 0 |
| 20230817T014500 | 2023 | 08 | 17 | 01:45 | 65.2 | 98.3 | 0 |
| 20230817T015000 | 2023 | 08 | 17 | 01:50 | 65.4 | 98 | 0 |
| 20230817T015500 | 2023 | 08 | 17 | 01:55 | 65.2 | 97.8 | 0 |
| 20230817T020000 | 2023 | 08 | 17 | 02:00 | 65.1 | 97.8 | 0 |
| 20230817T020500 | 2023 | 08 | 17 | 02:05 | 64.4 | 97.5 | 0 |
| 20230817T021000 | 2023 | 08 | 17 | 02:10 | 64.7 | 97.9 | 0 |
| 20230817T021500 | 2023 | 08 | 17 | 02:15 | 65.2 | 97.9 | 0 |
| 20230817T022000 | 2023 | 08 | 17 | 02:20 | 64.7 | 97.5 | 0 |
| 20230817T022500 | 2023 | 08 | 17 | 02:25 | 63.9 | 97.1 | 0 |
| 20230817T023000 | 2023 | 08 | 17 | 02:30 | 63.6 | 97.4 | 0 |
| 20230817T023500 | 2023 | 08 | 17 | 02:35 | 63.8 | 97.7 | 0 |
| 20230817T024000 | 2023 | 08 | 17 | 02:40 | 64.4 | 97.9 | 0 |
| 20230817T024500 | 2023 | 08 | 17 | 02:45 | 64.8 | 97.9 | 0 |
| 20230817T025000 | 2023 | 08 | 17 | 02:50 | 64.8 | 97.7 | 0 |
| 20230817T025500 | 2023 | 08 | 17 | 02:55 | 65.1 | 97.8 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230817T030000 | 2023 | 08 | 17 | 03:00 | 65 | 97.7 | 0 |
| 20230817T030500 | 2023 | 08 | 17 | 03:05 | 64.7 | 97.5 | 0 |
| 20230817T031000 | 2023 | 08 | 17 | 03:10 | 64.8 | 97.6 | 0 |
| 20230817T031500 | 2023 | 08 | 17 | 03:15 | 64.7 | 97.4 | 0 |
| 20230817T032000 | 2023 | 08 | 17 | 03:20 | 64.5 | 97.4 | 0 |
| 20230817T032500 | 2023 | 08 | 17 | 03:25 | 64.1 | 97.2 | 0 |
| 20230817T033000 | 2023 | 08 | 17 | 03:30 | 63.9 | 97.2 | 0 |
| 20230817T033500 | 2023 | 08 | 17 | 03:35 | 64.4 | 97.5 | 0 |
| 20230817T034000 | 2023 | 08 | 17 | 03:40 | 64.4 | 97.4 | 0 |
| 20230817T034500 | 2023 | 08 | 17 | 03:45 | 64 | 97.3 | 0 |
| 20230817T035000 | 2023 | 08 | 17 | 03:50 | 63.7 | 97.2 | 0 |
| 20230817T035500 | 2023 | 08 | 17 | 03:55 | 63.4 | 97.1 | 0 |
| 20230817T040000 | 2023 | 08 | 17 | 04:00 | 63.4 | 97.3 | 0 |
| 20230817T040500 | 2023 | 08 | 17 | 04:05 | 63.8 | 97.5 | 0 |
| 20230817T041000 | 2023 | 08 | 17 | 04:10 | 64.4 | 97.5 | 0 |
| 20230817T041500 | 2023 | 08 | 17 | 04:15 | 64.2 | 97.3 | 0 |
| 20230817T042000 | 2023 | 08 | 17 | 04:20 | 63.8 | 96.8 | 0 |
| 20230817T042500 | 2023 | 08 | 17 | 04:25 | 63.5 | 97 | 0 |
| 20230817T043000 | 2023 | 08 | 17 | 04:30 | 63.4 | 97 | 0 |
| 20230817T043500 | 2023 | 08 | 17 | 04:35 | 63.5 | 97.1 | 0 |
| 20230817T044000 | 2023 | 08 | 17 | 04:40 | 63.6 | 97.1 | 0 |
| 20230817T044500 | 2023 | 08 | 17 | 04:45 | 63.6 | 97.2 | 0 |
| 20230817T045000 | 2023 | 08 | 17 | 04:50 | 62.8 | 96.8 | 0 |
| 20230817T045500 | 2023 | 08 | 17 | 04:55 | 63 | 97.1 | 0 |
| 20230817T050000 | 2023 | 08 | 17 | 05:00 | 63.5 | 97.4 | 0 |
| 20230817T050500 | 2023 | 08 | 17 | 05:05 | 63.3 | 97.1 | 0 |
| 20230817T051000 | 2023 | 08 | 17 | 05:10 | 62.8 | 97 | 0 |
| 20230817T051500 | 2023 | 08 | 17 | 05:15 | 62.5 | 97 | 0 |
| 20230817T052000 | 2023 | 08 | 17 | 05:20 | 62.5 | 97.3 | 0 |
| 20230817T052500 | 2023 | 08 | 17 | 05:25 | 62.9 | 97.5 | 0 |
| 20230817T053000 | 2023 | 08 | 17 | 05:30 | 63 | 97.3 | 0 |
| 20230817T053500 | 2023 | 08 | 17 | 05:35 | 63.4 | 97.3 | 0 |
| 20230817T054000 | 2023 | 08 | 17 | 05:40 | 63.9 | 97.3 | 0 |
| 20230817T054500 | 2023 | 08 | 17 | 05:45 | 63.8 | 97.1 | 0 |
| 20230817T055000 | 2023 | 08 | 17 | 05:50 | 63.7 | 97 | 0 |
| 20230817T055500 | 2023 | 08 | 17 | 05:55 | 63.6 | 97 | 0 |
| 20230817T060000 | 2023 | 08 | 17 | 06:00 | 62.7 | 96.7 | 0 |
| 20230817T060500 | 2023 | 08 | 17 | 06:05 | 62.2 | 96.7 | 0 |
| 20230817T061000 | 2023 | 08 | 17 | 06:10 | 63.1 | 97.4 | 0 |
| 20230817T061500 | 2023 | 08 | 17 | 06:15 | 63.5 | 97.4 | 0 |
| 20230817T062000 | 2023 | 08 | 17 | 06:20 | 63.4 | 97.2 | 0 |
| 20230817T062500 | 2023 | 08 | 17 | 06:25 | 63.8 | 97.3 | 0 |
| 20230817T063000 | 2023 | 08 | 17 | 06:30 | 64.6 | 97.5 | 0 |
| 20230817T063500 | 2023 | 08 | 17 | 06:35 | 65.2 | 97.2 | 0 |
| 20230817T064000 | 2023 | 08 | 17 | 06:40 | 65.3 | 96.2 | 0 |
| 20230817T064500 | 2023 | 08 | 17 | 06:45 | 65.4 | 95.4 | 0 |
| 20230817T065000 | 2023 | 08 | 17 | 06:50 | 65.6 | 94.9 | 0 |
| 20230817T065500 | 2023 | 08 | 17 | 06:55 | 65.8 | 94.7 | 0 |
| 20230817T070000 | 2023 | 08 | 17 | 07:00 | 65.9 | 94.4 | 0 |
| 20230817T070500 | 2023 | 08 | 17 | 07:05 | 66 | 94.4 | 0 |
| 20230817T071000 | 2023 | 08 | 17 | 07:10 | 66.1 | 94.4 | 0 |
| 20230817T071500 | 2023 | 08 | 17 | 07:15 | 66.2 | 94.7 | 0 |
| 20230817T072000 | 2023 | 08 | 17 | 07:20 | 66.3 | 94.8 | 0 |
| 20230817T072500 | 2023 | 08 | 17 | 07:25 | 66.5 | 94.9 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230817T073000 | 2023 | 08 | 17 | 07:30 | 66.6 | 94.9 | 0 |
| 20230817T073500 | 2023 | 08 | 17 | 07:35 | 66.8 | 94.8 | 0 |
| 20230817T074000 | 2023 | 08 | 17 | 07:40 | 67 | 94.6 | 0 |
| 20230817T074500 | 2023 | 08 | 17 | 07:45 | 67.1 | 94.5 | 0 |
| 20230817T075000 | 2023 | 08 | 17 | 07:50 | 67.2 | 94.3 | 0 |
| 20230817T075500 | 2023 | 08 | 17 | 07:55 | 67.2 | 93.7 | 0 |
| 20230817T080000 | 2023 | 08 | 17 | 08:00 | 67.1 | 93.7 | 0 |
| 20230817T080500 | 2023 | 08 | 17 | 08:05 | 67.2 | 93.2 | 0 |
| 20230817T081000 | 2023 | 08 | 17 | 08:10 | 67.3 | 92.6 | 0 |
| 20230817T081500 | 2023 | 08 | 17 | 08:15 | 67.5 | 92.4 | 0 |
| 20230817T082000 | 2023 | 08 | 17 | 08:20 | 67.7 | 92.1 | 0 |
| 20230817T082500 | 2023 | 08 | 17 | 08:25 | 67.9 | 92 | 0 |
| 20230817T083000 | 2023 | 08 | 17 | 08:30 | 68.2 | 91.6 | 0 |
| 20230817T083500 | 2023 | 08 | 17 | 08:35 | 68.5 | 90.7 | 0 |
| 20230817T084000 | 2023 | 08 | 17 | 08:40 | 68.7 | 90.2 | 0 |
| 20230817T084500 | 2023 | 08 | 17 | 08:45 | 68.9 | 90.1 | 0 |
| 20230817T085000 | 2023 | 08 | 17 | 08:50 | 69.1 | 90 | 0 |
| 20230817T085500 | 2023 | 08 | 17 | 08:55 | 69.4 | 89.6 | 0 |
| 20230817T090000 | 2023 | 08 | 17 | 09:00 | 69.6 | 88.4 | 0 |
| 20230817T090500 | 2023 | 08 | 17 | 09:05 | 69.8 | 88.1 | 0 |
| 20230817T091000 | 2023 | 08 | 17 | 09:10 | 70.2 | 88.3 | 0 |
| 20230817T091500 | 2023 | 08 | 17 | 09:15 | 70.4 | 87.9 | 0 |
| 20230817T092000 | 2023 | 08 | 17 | 09:20 | 70.8 | 87.5 | 0 |
| 20230817T092500 | 2023 | 08 | 17 | 09:25 | 70.9 | 86.5 | 0 |
| 20230817T093000 | 2023 | 08 | 17 | 09:30 | 71.1 | 85.7 | 0 |
| 20230817T093500 | 2023 | 08 | 17 | 09:35 | 71.5 | 84.3 | 0 |
| 20230817T094000 | 2023 | 08 | 17 | 09:40 | 71.8 | 83 | 0 |
| 20230817T094500 | 2023 | 08 | 17 | 09:45 | 72.3 | 82.8 | 0 |
| 20230817T095000 | 2023 | 08 | 17 | 09:50 | 72.3 | 82.4 | 0 |
| 20230817T095500 | 2023 | 08 | 17 | 09:55 | 72.5 | 81.8 | 0 |
| 20230817T100000 | 2023 | 08 | 17 | 10:00 | 72.8 | 80.5 | 0 |
| 20230817T100500 | 2023 | 08 | 17 | 10:05 | 73.9 | 79.7 | 0 |
| 20230817T101000 | 2023 | 08 | 17 | 10:10 | 74.1 | 78.4 | 0 |
| 20230817T101500 | 2023 | 08 | 17 | 10:15 | 74.1 | 78.2 | 0 |
| 20230817T102000 | 2023 | 08 | 17 | 10:20 | 74.4 | 78.9 | 0 |
| 20230817T102500 | 2023 | 08 | 17 | 10:25 | 74.5 | 78.8 | 0 |
| 20230817T103000 | 2023 | 08 | 17 | 10:30 | 74.5 | 76.8 | 0 |
| 20230817T103500 | 2023 | 08 | 17 | 10:35 | 74.6 | 76.8 | 0 |
| 20230817T104000 | 2023 | 08 | 17 | 10:40 | 75.2 | 75.1 | 0 |
| 20230817T104500 | 2023 | 08 | 17 | 10:45 | 75.9 | 73.5 | 0 |
| 20230817T105000 | 2023 | 08 | 17 | 10:50 | 76.4 | 74.7 | 0 |
| 20230817T105500 | 2023 | 08 | 17 | 10:55 | 76.4 | 73.2 | 0 |
| 20230817T110000 | 2023 | 08 | 17 | 11:00 | 77 | 73.4 | 0 |
| 20230817T110500 | 2023 | 08 | 17 | 11:05 | 77.4 | 72.1 | 0 |
| 20230817T111000 | 2023 | 08 | 17 | 11:10 | 77.9 | 71 | 0 |
| 20230817T111500 | 2023 | 08 | 17 | 11:15 | 78.5 | 66.7 | 0 |
| 20230817T112000 | 2023 | 08 | 17 | 11:20 | 78.7 | 64.5 | 0 |
| 20230817T112500 | 2023 | 08 | 17 | 11:25 | 80.4 | 63.1 | 0 |
| 20230817T113000 | 2023 | 08 | 17 | 11:30 | 79.7 | 61.9 | 0 |
| 20230817T113500 | 2023 | 08 | 17 | 11:35 | 80 | 61.6 | 0 |
| 20230817T114000 | 2023 | 08 | 17 | 11:40 | 80.2 | 61.3 | 0 |
| 20230817T114500 | 2023 | 08 | 17 | 11:45 | 81.9 | 58.9 | 0 |
| 20230817T115000 | 2023 | 08 | 17 | 11:50 | 82 | 57.6 | 0 |
| 20230817T115500 | 2023 | 08 | 17 | 11:55 | 80.6 | 60.2 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230817T120000 | 2023 | 08 | 17 | 12:00 | 80 | 61.1 | 0 |
| 20230817T120500 | 2023 | 08 | 17 | 12:05 | 80.1 | 60.6 | 0 |
| 20230817T121000 | 2023 | 08 | 17 | 12:10 | 80.1 | 59.4 | 0 |
| 20230817T121500 | 2023 | 08 | 17 | 12:15 | 79.6 | 60.2 | 0 |
| 20230817T122000 | 2023 | 08 | 17 | 12:20 | 80.2 | 60.1 | 0 |
| 20230817T122500 | 2023 | 08 | 17 | 12:25 | 79.9 | 59.3 | 0 |
| 20230817T123000 | 2023 | 08 | 17 | 12:30 | 79.9 | 60.3 | 0 |
| 20230817T123500 | 2023 | 08 | 17 | 12:35 | 79.7 | 60.6 | 0 |
| 20230817T124000 | 2023 | 08 | 17 | 12:40 | 79.7 | 59.8 | 0 |
| 20230817T124500 | 2023 | 08 | 17 | 12:45 | 79.8 | 58.6 | 0 |
| 20230817T125000 | 2023 | 08 | 17 | 12:50 | 79.8 | 59.5 | 0 |
| 20230817T125500 | 2023 | 08 | 17 | 12:55 | 80.4 | 58.5 | 0 |
| 20230817T130000 | 2023 | 08 | 17 | 13:00 | 80.4 | 58 | 0 |
| 20230817T130500 | 2023 | 08 | 17 | 13:05 | 80.1 | 58.1 | 0 |
| 20230817T131000 | 2023 | 08 | 17 | 13:10 | 80 | 59.3 | 0 |
| 20230817T131500 | 2023 | 08 | 17 | 13:15 | 80 | 60 | 0 |
| 20230817T132000 | 2023 | 08 | 17 | 13:20 | 79.8 | 60.5 | 0 |
| 20230817T132500 | 2023 | 08 | 17 | 13:25 | 80.4 | 59.4 | 0 |
| 20230817T133000 | 2023 | 08 | 17 | 13:30 | 80 | 58.6 | 0 |
| 20230817T133500 | 2023 | 08 | 17 | 13:35 | 80.2 | 58.6 | 0 |
| 20230817T134000 | 2023 | 08 | 17 | 13:40 | 80.5 | 58.3 | 0 |
| 20230817T134500 | 2023 | 08 | 17 | 13:45 | 80.3 | 57.5 | 0 |
| 20230817T135000 | 2023 | 08 | 17 | 13:50 | 80 | 58.1 | 0 |
| 20230817T135500 | 2023 | 08 | 17 | 13:55 | 79.7 | 59.2 | 0 |
| 20230817T140000 | 2023 | 08 | 17 | 14:00 | 79.6 | 59.8 | 0 |
| 20230817T140500 | 2023 | 08 | 17 | 14:05 | 79.6 | 60.7 | 0 |
| 20230817T141000 | 2023 | 08 | 17 | 14:10 | 79.7 | 61.3 | 0 |
| 20230817T141500 | 2023 | 08 | 17 | 14:15 | 79.9 | 59.9 | 0 |
| 20230817T142000 | 2023 | 08 | 17 | 14:20 | 79.7 | 59.8 | 0 |
| 20230817T142500 | 2023 | 08 | 17 | 14:25 | 80.1 | 60 | 0 |
| 20230817T143000 | 2023 | 08 | 17 | 14:30 | 80.3 | 57.9 | 0 |
| 20230817T143500 | 2023 | 08 | 17 | 14:35 | 80.8 | 57.8 | 0 |
| 20230817T144000 | 2023 | 08 | 17 | 14:40 | 80.9 | 57.5 | 0 |
| 20230817T144500 | 2023 | 08 | 17 | 14:45 | 80.8 | 58.2 | 0 |
| 20230817T145000 | 2023 | 08 | 17 | 14:50 | 81.3 | 57.1 | 0 |
| 20230817T145500 | 2023 | 08 | 17 | 14:55 | 81.5 | 56.8 | 0 |
| 20230817T150000 | 2023 | 08 | 17 | 15:00 | 82.2 | 55.4 | 0 |
| 20230817T150500 | 2023 | 08 | 17 | 15:05 | 81.6 | 56.1 | 0 |
| 20230817T151000 | 2023 | 08 | 17 | 15:10 | 82.2 | 57 | 0 |
| 20230817T151500 | 2023 | 08 | 17 | 15:15 | 82.7 | 55.7 | 0 |
| 20230817T152000 | 2023 | 08 | 17 | 15:20 | 82.7 | 54.9 | 0 |
| 20230817T152500 | 2023 | 08 | 17 | 15:25 | 83.7 | 54.4 | 0 |
| 20230817T153000 | 2023 | 08 | 17 | 15:30 | 83.1 | 54.3 | 0 |
| 20230817T153500 | 2023 | 08 | 17 | 15:35 | 83.7 | 55 | 0 |
| 20230817T154000 | 2023 | 08 | 17 | 15:40 | 83.7 | 54.2 | 0 |
| 20230817T154500 | 2023 | 08 | 17 | 15:45 | 83.9 | 53.5 | 0 |
| 20230817T155000 | 2023 | 08 | 17 | 15:50 | 82.6 | 53.3 | 0 |
| 20230817T155500 | 2023 | 08 | 17 | 15:55 | 83.4 | 53.8 | 0 |
| 20230817T160000 | 2023 | 08 | 17 | 16:00 | 83 | 53 | 0 |
| 20230817T160500 | 2023 | 08 | 17 | 16:05 | 82.3 | 54.2 | 0 |
| 20230817T161000 | 2023 | 08 | 17 | 16:10 | 81.5 | 55.9 | 0 |
| 20230817T161500 | 2023 | 08 | 17 | 16:15 | 81 | 57.4 | 0 |
| 20230817T162000 | 2023 | 08 | 17 | 16:20 | 81.1 | 58.5 | 0 |
| 20230817T162500 | 2023 | 08 | 17 | 16:25 | 82.7 | 56.8 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230817T163000 | 2023 | 08 | 17 | 16:30 | 83 | 56.6 | 0 |
| 20230817T163500 | 2023 | 08 | 17 | 16:35 | 81.4 | 56.4 | 0 |
| 20230817T164000 | 2023 | 08 | 17 | 16:40 | 80.4 | 59 | 0 |
| 20230817T164500 | 2023 | 08 | 17 | 16:45 | 79.9 | 60.1 | 0 |
| 20230817T165000 | 2023 | 08 | 17 | 16:50 | 80.2 | 60.6 | 0 |
| 20230817T165500 | 2023 | 08 | 17 | 16:55 | 82.2 | 60.6 | 0 |
| 20230817T170000 | 2023 | 08 | 17 | 17:00 | 83.3 | 58 | 0 |
| 20230817T170500 | 2023 | 08 | 17 | 17:05 | 83.2 | 56.8 | 0 |
| 20230817T171000 | 2023 | 08 | 17 | 17:10 | 82.3 | 58.1 | 0 |
| 20230817T171500 | 2023 | 08 | 17 | 17:15 | 81.2 | 58.5 | 0 |
| 20230817T172000 | 2023 | 08 | 17 | 17:20 | 81.8 | 58.9 | 0 |
| 20230817T172500 | 2023 | 08 | 17 | 17:25 | 82.9 | 57 | 0 |
| 20230817T173000 | 2023 | 08 | 17 | 17:30 | 83.2 | 56.4 | 0 |
| 20230817T173500 | 2023 | 08 | 17 | 17:35 | 83.2 | 54.3 | 0 |
| 20230817T174000 | 2023 | 08 | 17 | 17:40 | 83.1 | 53.6 | 0 |
| 20230817T174500 | 2023 | 08 | 17 | 17:45 | 82.4 | 54.8 | 0 |
| 20230817T175000 | 2023 | 08 | 17 | 17:50 | 83.1 | 54.8 | 0 |
| 20230817T175500 | 2023 | 08 | 17 | 17:55 | 82.2 | 54.6 | 0 |
| 20230817T180000 | 2023 | 08 | 17 | 18:00 | 81.9 | 55.9 | 0 |
| 20230817T180500 | 2023 | 08 | 17 | 18:05 | 82.3 | 56.4 | 0 |
| 20230817T181000 | 2023 | 08 | 17 | 18:10 | 81.8 | 56.2 | 0 |
| 20230817T181500 | 2023 | 08 | 17 | 18:15 | 81.4 | 57.7 | 0 |
| 20230817T182000 | 2023 | 08 | 17 | 18:20 | 82.2 | 56.6 | 0 |
| 20230817T182500 | 2023 | 08 | 17 | 18:25 | 82.1 | 56.2 | 0 |
| 20230817T183000 | 2023 | 08 | 17 | 18:30 | 82.2 | 56.7 | 0 |
| 20230817T183500 | 2023 | 08 | 17 | 18:35 | 82.5 | 55.7 | 0 |
| 20230817T184000 | 2023 | 08 | 17 | 18:40 | 81.9 | 56.6 | 0 |
| 20230817T184500 | 2023 | 08 | 17 | 18:45 | 80.6 | 59 | 0 |
| 20230817T185000 | 2023 | 08 | 17 | 18:50 | 79.7 | 60.7 | 0 |
| 20230817T185500 | 2023 | 08 | 17 | 18:55 | 79 | 62.5 | 0 |
| 20230817T190000 | 2023 | 08 | 17 | 19:00 | 78.6 | 63.5 | 0 |
| 20230817T190500 | 2023 | 08 | 17 | 19:05 | 78.4 | 64.2 | 0 |
| 20230817T191000 | 2023 | 08 | 17 | 19:10 | 78.3 | 64.4 | 0 |
| 20230817T191500 | 2023 | 08 | 17 | 19:15 | 78.4 | 64.1 | 0 |
| 20230817T192000 | 2023 | 08 | 17 | 19:20 | 78.2 | 64.2 | 0 |
| 20230817T192500 | 2023 | 08 | 17 | 19:25 | 78 | 64.6 | 0 |
| 20230817T193000 | 2023 | 08 | 17 | 19:30 | 77.8 | 65.1 | 0 |
| 20230817T193500 | 2023 | 08 | 17 | 19:35 | 77.9 | 65 | 0 |
| 20230817T194000 | 2023 | 08 | 17 | 19:40 | 77.7 | 65.4 | 0 |
| 20230817T194500 | 2023 | 08 | 17 | 19:45 | 77.2 | 66.6 | 0 |
| 20230817T195000 | 2023 | 08 | 17 | 19:50 | 76.7 | 67.4 | 0 |
| 20230817T195500 | 2023 | 08 | 17 | 19:55 | 76.5 | 68.1 | 0 |
| 20230817T200000 | 2023 | 08 | 17 | 20:00 | 76.3 | 68.3 | 0 |
| 20230817T200500 | 2023 | 08 | 17 | 20:05 | 75.9 | 68.8 | 0 |
| 20230817T201000 | 2023 | 08 | 17 | 20:10 | 75.4 | 69.4 | 0 |
| 20230817T201500 | 2023 | 08 | 17 | 20:15 | 74.7 | 71.5 | 0 |
| 20230817T202000 | 2023 | 08 | 17 | 20:20 | 74.6 | 72.4 | 0 |
| 20230817T202500 | 2023 | 08 | 17 | 20:25 | 74.4 | 72.8 | 0 |
| 20230817T203000 | 2023 | 08 | 17 | 20:30 | 73.6 | 73.9 | 0 |
| 20230817T203500 | 2023 | 08 | 17 | 20:35 | 72 | 77.2 | 0 |
| 20230817T204000 | 2023 | 08 | 17 | 20:40 | 72.2 | 79.9 | 0 |
| 20230817T204500 | 2023 | 08 | 17 | 20:45 | 72.4 | 80.1 | 0 |
| 20230817T205000 | 2023 | 08 | 17 | 20:50 | 72.8 | 79.2 | 0 |
| 20230817T205500 | 2023 | 08 | 17 | 20:55 | 72.6 | 79.6 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230817T210000 | 2023 | 08 | 17 | 21:00 | 72.7 | 79.2 | 0 |
| 20230817T210500 | 2023 | 08 | 17 | 21:05 | 72.3 | 79.2 | 0 |
| 20230817T211000 | 2023 | 08 | 17 | 21:10 | 73 | 78.3 | 0 |
| 20230817T211500 | 2023 | 08 | 17 | 21:15 | 73.7 | 76.4 | 0 |
| 20230817T212000 | 2023 | 08 | 17 | 21:20 | 73.9 | 76 | 0 |
| 20230817T212500 | 2023 | 08 | 17 | 21:25 | 73.7 | 77.2 | 0 |
| 20230817T213000 | 2023 | 08 | 17 | 21:30 | 73.7 | 77.7 | 0 |
| 20230817T213500 | 2023 | 08 | 17 | 21:35 | 73.9 | 78.4 | 0 |
| 20230817T214000 | 2023 | 08 | 17 | 21:40 | 74.2 | 78 | 0 |
| 20230817T214500 | 2023 | 08 | 17 | 21:45 | 74.4 | 77 | 0 |
| 20230817T215000 | 2023 | 08 | 17 | 21:50 | 74.2 | 76.5 | 0 |
| 20230817T215500 | 2023 | 08 | 17 | 21:55 | 73.5 | 77.1 | 0 |
| 20230817T220000 | 2023 | 08 | 17 | 22:00 | 73.2 | 77.9 | 0 |
| 20230817T220500 | 2023 | 08 | 17 | 22:05 | 73.7 | 78 | 0 |
| 20230817T221000 | 2023 | 08 | 17 | 22:10 | 73.6 | 78.1 | 0 |
| 20230817T221500 | 2023 | 08 | 17 | 22:15 | 73.2 | 78.3 | 0 |
| 20230817T222000 | 2023 | 08 | 17 | 22:20 | 72.6 | 79 | 0 |
| 20230817T222500 | 2023 | 08 | 17 | 22:25 | 71.6 | 80.5 | 0 |
| 20230817T223000 | 2023 | 08 | 17 | 22:30 | 71.5 | 81.3 | 0 |
| 20230817T223500 | 2023 | 08 | 17 | 22:35 | 71.2 | 81.3 | 0 |
| 20230817T224000 | 2023 | 08 | 17 | 22:40 | 71.2 | 80.9 | 0 |
| 20230817T224500 | 2023 | 08 | 17 | 22:45 | 71 | 80.8 | 0 |
| 20230817T225000 | 2023 | 08 | 17 | 22:50 | 71.4 | 80 | 0 |
| 20230817T225500 | 2023 | 08 | 17 | 22:55 | 71.7 | 78.5 | 0 |
| 20230817T230000 | 2023 | 08 | 17 | 23:00 | 71.9 | 77.4 | 0 |
| 20230817T230500 | 2023 | 08 | 17 | 23:05 | 71.8 | 79.1 | 0 |
| 20230817T231000 | 2023 | 08 | 17 | 23:10 | 71.9 | 80.6 | 0 |
| 20230817T231500 | 2023 | 08 | 17 | 23:15 | 71.6 | 80.7 | 0 |
| 20230817T232000 | 2023 | 08 | 17 | 23:20 | 71.6 | 80.7 | 0 |
| 20230817T232500 | 2023 | 08 | 17 | 23:25 | 71 | 81.5 | 0 |
| 20230817T233000 | 2023 | 08 | 17 | 23:30 | 70.8 | 82.4 | 0 |
| 20230817T233500 | 2023 | 08 | 17 | 23:35 | 70.7 | 82.9 | 0 |
| 20230817T234000 | 2023 | 08 | 17 | 23:40 | 70.5 | 83.6 | 0 |
| 20230817T234500 | 2023 | 08 | 17 | 23:45 | 70.2 | 84.4 | 0 |
| 20230817T235000 | 2023 | 08 | 17 | 23:50 | 70.2 | 84.8 | 0 |
| 20230817T235500 | 2023 | 08 | 17 | 23:55 | 70.1 | 84.9 | 0 |
| 20230818T000000 | 2023 | 08 | 18 | 00:00 | 70.1 | 85.3 | 0 |
| 20230818T000500 | 2023 | 08 | 18 | 00:05 | 70.2 | 85.5 | 0 |
| 20230818T001000 | 2023 | 08 | 18 | 00:10 | 70.5 | 84.9 | 0 |
| 20230818T001500 | 2023 | 08 | 18 | 00:15 | 70.5 | 84.3 | 0 |
| 20230818T002000 | 2023 | 08 | 18 | 00:20 | 70.6 | 83.7 | 0 |
| 20230818T002500 | 2023 | 08 | 18 | 00:25 | 70.5 | 83.3 | 0 |
| 20230818T003000 | 2023 | 08 | 18 | 00:30 | 70.2 | 83.6 | 0 |
| 20230818T003500 | 2023 | 08 | 18 | 00:35 | 69.8 | 84.2 | 0 |
| 20230818T004000 | 2023 | 08 | 18 | 00:40 | 69.6 | 84.7 | 0 |
| 20230818T004500 | 2023 | 08 | 18 | 00:45 | 69.4 | 85.5 | 0 |
| 20230818T005000 | 2023 | 08 | 18 | 00:50 | 69.3 | 85.7 | 0 |
| 20230818T005500 | 2023 | 08 | 18 | 00:55 | 69.2 | 86.2 | 0 |
| 20230818T010000 | 2023 | 08 | 18 | 01:00 | 69 | 86.8 | 0 |
| 20230818T010500 | 2023 | 08 | 18 | 01:05 | 68.9 | 87.7 | 0 |
| 20230818T011000 | 2023 | 08 | 18 | 01:10 | 69.1 | 88.2 | 0 |
| 20230818T011500 | 2023 | 08 | 18 | 01:15 | 69.2 | 88.5 | 0 |
| 20230818T012000 | 2023 | 08 | 18 | 01:20 | 69.3 | 88.1 | 0 |
| 20230818T012500 | 2023 | 08 | 18 | 01:25 | 69.3 | 87.7 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230818T013000 | 2023 | 08 | 18 | 01:30 | 69.3 | 87.6 | 0 |
| 20230818T013500 | 2023 | 08 | 18 | 01:35 | 69.3 | 87.4 | 0 |
| 20230818T014000 | 2023 | 08 | 18 | 01:40 | 69.4 | 87 | 0 |
| 20230818T014500 | 2023 | 08 | 18 | 01:45 | 69.4 | 87 | 0 |
| 20230818T015000 | 2023 | 08 | 18 | 01:50 | 69.3 | 87.4 | 0 |
| 20230818T015500 | 2023 | 08 | 18 | 01:55 | 69.3 | 87.6 | 0 |
| 20230818T020000 | 2023 | 08 | 18 | 02:00 | 69.3 | 88 | 0 |
| 20230818T020500 | 2023 | 08 | 18 | 02:05 | 69.4 | 87.8 | 0 |
| 20230818T021000 | 2023 | 08 | 18 | 02:10 | 69.3 | 87.4 | 0 |
| 20230818T021500 | 2023 | 08 | 18 | 02:15 | 69.3 | 87.4 | 0 |
| 20230818T022000 | 2023 | 08 | 18 | 02:20 | 69.2 | 87.5 | 0 |
| 20230818T022500 | 2023 | 08 | 18 | 02:25 | 68.9 | 88 | 0.038 |
| 20230818T023000 | 2023 | 08 | 18 | 02:30 | 68.3 | 90.1 | 0.012 |
| 20230818T023500 | 2023 | 08 | 18 | 02:35 | 68.1 | 91.3 | 0.046 |
| 20230818T024000 | 2023 | 08 | 18 | 02:40 | 68 | 89.6 | 0.03 |
| 20230818T024500 | 2023 | 08 | 18 | 02:45 | 67.6 | 90.6 | 0.001 |
| 20230818T025000 | 2023 | 08 | 18 | 02:50 | 67.5 | 90.7 | 0 |
| 20230818T025500 | 2023 | 08 | 18 | 02:55 | 67.6 | 87.3 | 0 |
| 20230818T030000 | 2023 | 08 | 18 | 03:00 | 66.6 | 90.8 | 0 |
| 20230818T030500 | 2023 | 08 | 18 | 03:05 | 66.2 | 91.2 | 0 |
| 20230818T031000 | 2023 | 08 | 18 | 03:10 | 66.1 | 91.2 | 0 |
| 20230818T031500 | 2023 | 08 | 18 | 03:15 | 65.8 | 91.1 | 0 |
| 20230818T032000 | 2023 | 08 | 18 | 03:20 | 65.7 | 91.7 | 0 |
| 20230818T032500 | 2023 | 08 | 18 | 03:25 | 65.6 | 91.8 | 0 |
| 20230818T033000 | 2023 | 08 | 18 | 03:30 | 65.5 | 92.7 | 0 |
| 20230818T033500 | 2023 | 08 | 18 | 03:35 | 65.7 | 93.1 | 0 |
| 20230818T034000 | 2023 | 08 | 18 | 03:40 | 65.8 | 93.4 | 0 |
| 20230818T034500 | 2023 | 08 | 18 | 03:45 | 65.7 | 93.4 | 0 |
| 20230818T035000 | 2023 | 08 | 18 | 03:50 | 65.6 | 93.4 | 0 |
| 20230818T035500 | 2023 | 08 | 18 | 03:55 | 65.7 | 93 | 0 |
| 20230818T040000 | 2023 | 08 | 18 | 04:00 | 65.7 | 92 | 0 |
| 20230818T040500 | 2023 | 08 | 18 | 04:05 | 65.9 | 89.3 | 0 |
| 20230818T041000 | 2023 | 08 | 18 | 04:10 | 65.6 | 89.4 | 0.004 |
| 20230818T041500 | 2023 | 08 | 18 | 04:15 | 65.1 | 92.1 | 0 |
| 20230818T042000 | 2023 | 08 | 18 | 04:20 | 65.5 | 90.7 | 0 |
| 20230818T042500 | 2023 | 08 | 18 | 04:25 | 65.2 | 90 | 0 |
| 20230818T043000 | 2023 | 08 | 18 | 04:30 | 65 | 90.9 | 0 |
| 20230818T043500 | 2023 | 08 | 18 | 04:35 | 64.9 | 90.9 | 0 |
| 20230818T044000 | 2023 | 08 | 18 | 04:40 | 64.2 | 92.6 | 0 |
| 20230818T044500 | 2023 | 08 | 18 | 04:45 | 63.9 | 93.6 | 0 |
| 20230818T045000 | 2023 | 08 | 18 | 04:50 | 63.9 | 94.5 | 0 |
| 20230818T045500 | 2023 | 08 | 18 | 04:55 | 63.9 | 95.1 | 0 |
| 20230818T050000 | 2023 | 08 | 18 | 05:00 | 64.1 | 95.7 | 0 |
| 20230818T050500 | 2023 | 08 | 18 | 05:05 | 64.7 | 95.3 | 0 |
| 20230818T051000 | 2023 | 08 | 18 | 05:10 | 64.7 | 93.6 | 0 |
| 20230818T051500 | 2023 | 08 | 18 | 05:15 | 64.8 | 90.7 | 0 |
| 20230818T052000 | 2023 | 08 | 18 | 05:20 | 64.8 | 89 | 0 |
| 20230818T052500 | 2023 | 08 | 18 | 05:25 | 64.9 | 86.3 | 0 |
| 20230818T053000 | 2023 | 08 | 18 | 05:30 | 64.8 | 84.2 | 0 |
| 20230818T053500 | 2023 | 08 | 18 | 05:35 | 64.7 | 83 | 0 |
| 20230818T054000 | 2023 | 08 | 18 | 05:40 | 64.7 | 82 | 0 |
| 20230818T054500 | 2023 | 08 | 18 | 05:45 | 64.6 | 81.1 | 0 |
| 20230818T055000 | 2023 | 08 | 18 | 05:50 | 64.1 | 82 | 0 |
| 20230818T055500 | 2023 | 08 | 18 | 05:55 | 63.7 | 83.3 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230818T060000 | 2023 | 08 | 18 | 06:00 | 63.8 | 83.7 | 0 |
| 20230818T060500 | 2023 | 08 | 18 | 06:05 | 63.9 | 83.1 | 0 |
| 20230818T061000 | 2023 | 08 | 18 | 06:10 | 63.8 | 83.1 | 0 |
| 20230818T061500 | 2023 | 08 | 18 | 06:15 | 64.1 | 81.8 | 0 |
| 20230818T062000 | 2023 | 08 | 18 | 06:20 | 64.1 | 82.1 | 0 |
| 20230818T062500 | 2023 | 08 | 18 | 06:25 | 64.4 | 81.4 | 0 |
| 20230818T063000 | 2023 | 08 | 18 | 06:30 | 64.3 | 82.2 | 0 |
| 20230818T063500 | 2023 | 08 | 18 | 06:35 | 64.3 | 82.1 | 0 |
| 20230818T064000 | 2023 | 08 | 18 | 06:40 | 64.4 | 81.3 | 0 |
| 20230818T064500 | 2023 | 08 | 18 | 06:45 | 64.3 | 81.6 | 0 |
| 20230818T065000 | 2023 | 08 | 18 | 06:50 | 64.1 | 82.9 | 0 |
| 20230818T065500 | 2023 | 08 | 18 | 06:55 | 64.3 | 82.6 | 0 |
| 20230818T070000 | 2023 | 08 | 18 | 07:00 | 64.4 | 82.2 | 0 |
| 20230818T070500 | 2023 | 08 | 18 | 07:05 | 64.5 | 82 | 0 |
| 20230818T071000 | 2023 | 08 | 18 | 07:10 | 64.6 | 82 | 0 |
| 20230818T071500 | 2023 | 08 | 18 | 07:15 | 64.5 | 82.3 | 0 |
| 20230818T072000 | 2023 | 08 | 18 | 07:20 | 64.4 | 82.5 | 0 |
| 20230818T072500 | 2023 | 08 | 18 | 07:25 | 64.4 | 82.2 | 0 |
| 20230818T073000 | 2023 | 08 | 18 | 07:30 | 64.5 | 82.3 | 0 |
| 20230818T073500 | 2023 | 08 | 18 | 07:35 | 64.6 | 81.5 | 0 |
| 20230818T074000 | 2023 | 08 | 18 | 07:40 | 64.5 | 81.4 | 0 |
| 20230818T074500 | 2023 | 08 | 18 | 07:45 | 64.4 | 81.7 | 0 |
| 20230818T075000 | 2023 | 08 | 18 | 07:50 | 64.7 | 81.5 | 0 |
| 20230818T075500 | 2023 | 08 | 18 | 07:55 | 65.1 | 80.7 | 0 |
| 20230818T080000 | 2023 | 08 | 18 | 08:00 | 65.1 | 79.9 | 0 |
| 20230818T080500 | 2023 | 08 | 18 | 08:05 | 65.6 | 79.7 | 0 |
| 20230818T081000 | 2023 | 08 | 18 | 08:10 | 65.6 | 78.4 | 0 |
| 20230818T081500 | 2023 | 08 | 18 | 08:15 | 65.5 | 79 | 0 |
| 20230818T082000 | 2023 | 08 | 18 | 08:20 | 65.9 | 77.4 | 0 |
| 20230818T082500 | 2023 | 08 | 18 | 08:25 | 66.2 | 76.9 | 0 |
| 20230818T083000 | 2023 | 08 | 18 | 08:30 | 66.5 | 76.2 | 0 |
| 20230818T083500 | 2023 | 08 | 18 | 08:35 | 66.5 | 73.9 | 0 |
| 20230818T084000 | 2023 | 08 | 18 | 08:40 | 67 | 73.6 | 0 |
| 20230818T084500 | 2023 | 08 | 18 | 08:45 | 67.5 | 72.2 | 0 |
| 20230818T085000 | 2023 | 08 | 18 | 08:50 | 67.2 | 71.7 | 0 |
| 20230818T085500 | 2023 | 08 | 18 | 08:55 | 66.8 | 70.5 | 0 |
| 20230818T090000 | 2023 | 08 | 18 | 09:00 | 67 | 69.9 | 0 |
| 20230818T090500 | 2023 | 08 | 18 | 09:05 | 67.2 | 69.6 | 0 |
| 20230818T091000 | 2023 | 08 | 18 | 09:10 | 66.6 | 67.9 | 0 |
| 20230818T091500 | 2023 | 08 | 18 | 09:15 | 66.5 | 66.8 | 0 |
| 20230818T092000 | 2023 | 08 | 18 | 09:20 | 67 | 64.9 | 0 |
| 20230818T092500 | 2023 | 08 | 18 | 09:25 | 67.2 | 62.9 | 0 |
| 20230818T093000 | 2023 | 08 | 18 | 09:30 | 67.1 | 63.1 | 0 |
| 20230818T093500 | 2023 | 08 | 18 | 09:35 | 67.3 | 62.3 | 0 |
| 20230818T094000 | 2023 | 08 | 18 | 09:40 | 68 | 63 | 0 |
| 20230818T094500 | 2023 | 08 | 18 | 09:45 | 68 | 61.9 | 0 |
| 20230818T095000 | 2023 | 08 | 18 | 09:50 | 68.5 | 61.6 | 0 |
| 20230818T095500 | 2023 | 08 | 18 | 09:55 | 68.8 | 59.9 | 0 |
| 20230818T100000 | 2023 | 08 | 18 | 10:00 | 68.5 | 58.4 | 0 |
| 20230818T100500 | 2023 | 08 | 18 | 10:05 | 68.2 | 57.5 | 0 |
| 20230818T101000 | 2023 | 08 | 18 | 10:10 | 67.9 | 58.7 | 0 |
| 20230818T101500 | 2023 | 08 | 18 | 10:15 | 67.9 | 58.2 | 0 |
| 20230818T102000 | 2023 | 08 | 18 | 10:20 | 68.2 | 58.1 | 0 |
| 20230818T102500 | 2023 | 08 | 18 | 10:25 | 68.1 | 56.7 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230818T103000 | 2023 | 08 | 18 | 10:30 | 67.3 | 57.6 | 0 |
| 20230818T103500 | 2023 | 08 | 18 | 10:35 | 66.5 | 58 | 0 |
| 20230818T104000 | 2023 | 08 | 18 | 10:40 | 67.9 | 58.3 | 0 |
| 20230818T104500 | 2023 | 08 | 18 | 10:45 | 69.4 | 55.4 | 0 |
| 20230818T105000 | 2023 | 08 | 18 | 10:50 | 69.8 | 54.2 | 0 |
| 20230818T105500 | 2023 | 08 | 18 | 10:55 | 67.8 | 55.4 | 0 |
| 20230818T110000 | 2023 | 08 | 18 | 11:00 | 67.9 | 57.4 | 0 |
| 20230818T110500 | 2023 | 08 | 18 | 11:05 | 69 | 55.7 | 0 |
| 20230818T111000 | 2023 | 08 | 18 | 11:10 | 70 | 53.7 | 0 |
| 20230818T111500 | 2023 | 08 | 18 | 11:15 | 69.6 | 52.8 | 0 |
| 20230818T112000 | 2023 | 08 | 18 | 11:20 | 68.8 | 55 | 0 |
| 20230818T112500 | 2023 | 08 | 18 | 11:25 | 68.2 | 54.2 | 0 |
| 20230818T113000 | 2023 | 08 | 18 | 11:30 | 69.7 | 53.5 | 0 |
| 20230818T113500 | 2023 | 08 | 18 | 11:35 | 70.8 | 52.6 | 0 |
| 20230818T114000 | 2023 | 08 | 18 | 11:40 | 70.4 | 50.7 | 0 |
| 20230818T114500 | 2023 | 08 | 18 | 11:45 | 69.8 | 51.3 | 0 |
| 20230818T115000 | 2023 | 08 | 18 | 11:50 | 69.7 | 51.5 | 0 |
| 20230818T115500 | 2023 | 08 | 18 | 11:55 | 69.3 | 54.5 | 0 |
| 20230818T120000 | 2023 | 08 | 18 | 12:00 | 70.1 | 53.4 | 0 |
| 20230818T120500 | 2023 | 08 | 18 | 12:05 | 69.8 | 52.7 | 0 |
| 20230818T121000 | 2023 | 08 | 18 | 12:10 | 68.7 | 54.2 | 0 |
| 20230818T121500 | 2023 | 08 | 18 | 12:15 | 67.9 | 54.7 | 0 |
| 20230818T122000 | 2023 | 08 | 18 | 12:20 | 67.6 | 55.5 | 0 |
| 20230818T122500 | 2023 | 08 | 18 | 12:25 | 69.3 | 55.8 | 0 |
| 20230818T123000 | 2023 | 08 | 18 | 12:30 | 70.9 | 52.6 | 0 |
| 20230818T123500 | 2023 | 08 | 18 | 12:35 | 69.9 | 52.2 | 0 |
| 20230818T124000 | 2023 | 08 | 18 | 12:40 | 68.4 | 54.2 | 0 |
| 20230818T124500 | 2023 | 08 | 18 | 12:45 | 68.4 | 55.7 | 0 |
| 20230818T125000 | 2023 | 08 | 18 | 12:50 | 68.8 | 55.3 | 0 |
| 20230818T125500 | 2023 | 08 | 18 | 12:55 | 68.5 | 53.6 | 0 |
| 20230818T130000 | 2023 | 08 | 18 | 13:00 | 68.3 | 54.6 | 0 |
| 20230818T130500 | 2023 | 08 | 18 | 13:05 | 68.5 | 53.8 | 0 |
| 20230818T131000 | 2023 | 08 | 18 | 13:10 | 68.4 | 53.1 | 0 |
| 20230818T131500 | 2023 | 08 | 18 | 13:15 | 67.8 | 54.1 | 0 |
| 20230818T132000 | 2023 | 08 | 18 | 13:20 | 67.5 | 56.1 | 0 |
| 20230818T132500 | 2023 | 08 | 18 | 13:25 | 67.9 | 56.9 | 0 |
| 20230818T133000 | 2023 | 08 | 18 | 13:30 | 68.5 | 56 | 0 |
| 20230818T133500 | 2023 | 08 | 18 | 13:35 | 69 | 54.9 | 0 |
| 20230818T134000 | 2023 | 08 | 18 | 13:40 | 69.2 | 54.4 | 0 |
| 20230818T134500 | 2023 | 08 | 18 | 13:45 | 69.1 | 53.7 | 0 |
| 20230818T135000 | 2023 | 08 | 18 | 13:50 | 68.9 | 55 | 0 |
| 20230818T135500 | 2023 | 08 | 18 | 13:55 | 68.4 | 56.3 | 0 |
| 20230818T140000 | 2023 | 08 | 18 | 14:00 | 68.5 | 56.7 | 0 |
| 20230818T140500 | 2023 | 08 | 18 | 14:05 | 68.5 | 55.8 | 0 |
| 20230818T141000 | 2023 | 08 | 18 | 14:10 | 68.7 | 54.9 | 0 |
| 20230818T141500 | 2023 | 08 | 18 | 14:15 | 68.8 | 55 | 0 |
| 20230818T142000 | 2023 | 08 | 18 | 14:20 | 69.1 | 56.1 | 0 |
| 20230818T142500 | 2023 | 08 | 18 | 14:25 | 68.5 | 54.2 | 0 |
| 20230818T143000 | 2023 | 08 | 18 | 14:30 | 68.5 | 55 | 0 |
| 20230818T143500 | 2023 | 08 | 18 | 14:35 | 69.1 | 54.4 | 0 |
| 20230818T144000 | 2023 | 08 | 18 | 14:40 | 68.3 | 55.4 | 0 |
| 20230818T144500 | 2023 | 08 | 18 | 14:45 | 67.7 | 58.2 | 0 |
| 20230818T145000 | 2023 | 08 | 18 | 14:50 | 66.8 | 58.1 | 0 |
| 20230818T145500 | 2023 | 08 | 18 | 14:55 | 65.5 | 62.4 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230818T150000 | 2023 | 08 | 18 | 15:00 | 66 | 61.6 | 0 |
| 20230818T150500 | 2023 | 08 | 18 | 15:05 | 66.4 | 60.5 | 0 |
| 20230818T151000 | 2023 | 08 | 18 | 15:10 | 66.2 | 61.2 | 0 |
| 20230818T151500 | 2023 | 08 | 18 | 15:15 | 65.9 | 63 | 0 |
| 20230818T152000 | 2023 | 08 | 18 | 15:20 | 65.2 | 65.4 | 0 |
| 20230818T152500 | 2023 | 08 | 18 | 15:25 | 64.8 | 67.6 | 0 |
| 20230818T153000 | 2023 | 08 | 18 | 15:30 | 65.3 | 67.5 | 0 |
| 20230818T153500 | 2023 | 08 | 18 | 15:35 | 65.7 | 66 | 0 |
| 20230818T154000 | 2023 | 08 | 18 | 15:40 | 66.4 | 63.2 | 0 |
| 20230818T154500 | 2023 | 08 | 18 | 15:45 | 66.9 | 61.6 | 0 |
| 20230818T155000 | 2023 | 08 | 18 | 15:50 | 67.8 | 60.1 | 0 |
| 20230818T155500 | 2023 | 08 | 18 | 15:55 | 67.1 | 59.6 | 0 |
| 20230818T160000 | 2023 | 08 | 18 | 16:00 | 67.9 | 60.2 | 0 |
| 20230818T160500 | 2023 | 08 | 18 | 16:05 | 67.7 | 60.7 | 0 |
| 20230818T161000 | 2023 | 08 | 18 | 16:10 | 67.4 | 61.9 | 0 |
| 20230818T161500 | 2023 | 08 | 18 | 16:15 | 66.9 | 62.5 | 0 |
| 20230818T162000 | 2023 | 08 | 18 | 16:20 | 66.3 | 64.2 | 0 |
| 20230818T162500 | 2023 | 08 | 18 | 16:25 | 66.3 | 64.5 | 0 |
| 20230818T163000 | 2023 | 08 | 18 | 16:30 | 66.8 | 63.2 | 0 |
| 20230818T163500 | 2023 | 08 | 18 | 16:35 | 66.5 | 64 | 0 |
| 20230818T164000 | 2023 | 08 | 18 | 16:40 | 66 | 65.2 | 0 |
| 20230818T164500 | 2023 | 08 | 18 | 16:45 | 65.9 | 65.8 | 0 |
| 20230818T165000 | 2023 | 08 | 18 | 16:50 | 66 | 65 | 0 |
| 20230818T165500 | 2023 | 08 | 18 | 16:55 | 65.8 | 65.2 | 0 |
| 20230818T170000 | 2023 | 08 | 18 | 17:00 | 64.7 | 69.4 | 0.012 |
| 20230818T170500 | 2023 | 08 | 18 | 17:05 | 64.3 | 75.2 | 0 |
| 20230818T171000 | 2023 | 08 | 18 | 17:10 | 64.8 | 73.9 | 0 |
| 20230818T171500 | 2023 | 08 | 18 | 17:15 | 64.7 | 72.8 | 0 |
| 20230818T172000 | 2023 | 08 | 18 | 17:20 | 64.7 | 73 | 0 |
| 20230818T172500 | 2023 | 08 | 18 | 17:25 | 64.7 | 72.1 | 0 |
| 20230818T173000 | 2023 | 08 | 18 | 17:30 | 64.8 | 71.1 | 0 |
| 20230818T173500 | 2023 | 08 | 18 | 17:35 | 65.2 | 69 | 0 |
| 20230818T174000 | 2023 | 08 | 18 | 17:40 | 65.8 | 65.5 | 0 |
| 20230818T174500 | 2023 | 08 | 18 | 17:45 | 65.9 | 65.1 | 0 |
| 20230818T175000 | 2023 | 08 | 18 | 17:50 | 65.6 | 65.8 | 0 |
| 20230818T175500 | 2023 | 08 | 18 | 17:55 | 65.3 | 67.4 | 0 |
| 20230818T180000 | 2023 | 08 | 18 | 18:00 | 64 | 72.5 | 0.005 |
| 20230818T180500 | 2023 | 08 | 18 | 18:05 | 63.9 | 74.1 | 0 |
| 20230818T181000 | 2023 | 08 | 18 | 18:10 | 64.2 | 72.6 | 0 |
| 20230818T181500 | 2023 | 08 | 18 | 18:15 | 64.5 | 69.9 | 0 |
| 20230818T182000 | 2023 | 08 | 18 | 18:20 | 64.6 | 69 | 0 |
| 20230818T182500 | 2023 | 08 | 18 | 18:25 | 64.5 | 69.2 | 0 |
| 20230818T183000 | 2023 | 08 | 18 | 18:30 | 63.9 | 72.7 | 0.004 |
| 20230818T183500 | 2023 | 08 | 18 | 18:35 | 62.6 | 77 | 0.012 |
| 20230818T184000 | 2023 | 08 | 18 | 18:40 | 61.9 | 80.6 | 0.001 |
| 20230818T184500 | 2023 | 08 | 18 | 18:45 | 61.8 | 81.6 | 0 |
| 20230818T185000 | 2023 | 08 | 18 | 18:50 | 61.5 | 82.6 | 0.006 |
| 20230818T185500 | 2023 | 08 | 18 | 18:55 | 60.6 | 85.8 | 0.008 |
| 20230818T190000 | 2023 | 08 | 18 | 19:00 | 60.2 | 88.8 | 0 |
| 20230818T190500 | 2023 | 08 | 18 | 19:05 | 60.3 | 89.2 | 0 |
| 20230818T191000 | 2023 | 08 | 18 | 19:10 | 60.4 | 88.7 | 0 |
| 20230818T191500 | 2023 | 08 | 18 | 19:15 | 60.7 | 86.6 | 0 |
| 20230818T192000 | 2023 | 08 | 18 | 19:20 | 60.8 | 85.3 | 0 |
| 20230818T192500 | 2023 | 08 | 18 | 19:25 | 60.8 | 84.8 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230818T193000 | 2023 | 08 | 18 | 19:30 | 61 | 83.5 | 0 |
| 20230818T193500 | 2023 | 08 | 18 | 19:35 | 61.1 | 82.3 | 0 |
| 20230818T194000 | 2023 | 08 | 18 | 19:40 | 61.2 | 80.6 | 0 |
| 20230818T194500 | 2023 | 08 | 18 | 19:45 | 61.2 | 79.8 | 0 |
| 20230818T195000 | 2023 | 08 | 18 | 19:50 | 61.2 | 79.5 | 0 |
| 20230818T195500 | 2023 | 08 | 18 | 19:55 | 61.4 | 78.7 | 0 |
| 20230818T200000 | 2023 | 08 | 18 | 20:00 | 61.3 | 79.1 | 0 |
| 20230818T200500 | 2023 | 08 | 18 | 20:05 | 61.3 | 78.9 | 0 |
| 20230818T201000 | 2023 | 08 | 18 | 20:10 | 61.3 | 78.6 | 0 |
| 20230818T201500 | 2023 | 08 | 18 | 20:15 | 61.5 | 78.1 | 0 |
| 20230818T202000 | 2023 | 08 | 18 | 20:20 | 61.7 | 77 | 0 |
| 20230818T202500 | 2023 | 08 | 18 | 20:25 | 61.5 | 77.4 | 0 |
| 20230818T203000 | 2023 | 08 | 18 | 20:30 | 61.5 | 77.6 | 0 |
| 20230818T203500 | 2023 | 08 | 18 | 20:35 | 61.7 | 76.6 | 0 |
| 20230818T204000 | 2023 | 08 | 18 | 20:40 | 61.6 | 76.7 | 0 |
| 20230818T204500 | 2023 | 08 | 18 | 20:45 | 61.6 | 76.4 | 0 |
| 20230818T205000 | 2023 | 08 | 18 | 20:50 | 61.5 | 76.4 | 0 |
| 20230818T205500 | 2023 | 08 | 18 | 20:55 | 61.6 | 75.9 | 0 |
| 20230818T210000 | 2023 | 08 | 18 | 21:00 | 61.5 | 76.3 | 0 |
| 20230818T210500 | 2023 | 08 | 18 | 21:05 | 61.4 | 76 | 0 |
| 20230818T211000 | 2023 | 08 | 18 | 21:10 | 61.4 | 75.8 | 0 |
| 20230818T211500 | 2023 | 08 | 18 | 21:15 | 61.6 | 75.3 | 0 |
| 20230818T212000 | 2023 | 08 | 18 | 21:20 | 61.7 | 74.8 | 0 |
| 20230818T212500 | 2023 | 08 | 18 | 21:25 | 61.6 | 74.8 | 0 |
| 20230818T213000 | 2023 | 08 | 18 | 21:30 | 61.8 | 74.1 | 0 |
| 20230818T213500 | 2023 | 08 | 18 | 21:35 | 61.8 | 73.4 | 0 |
| 20230818T214000 | 2023 | 08 | 18 | 21:40 | 61.7 | 73.7 | 0 |
| 20230818T214500 | 2023 | 08 | 18 | 21:45 | 61.7 | 73.2 | 0 |
| 20230818T215000 | 2023 | 08 | 18 | 21:50 | 61.7 | 73.1 | 0 |
| 20230818T215500 | 2023 | 08 | 18 | 21:55 | 61.9 | 72.3 | 0 |
| 20230818T220000 | 2023 | 08 | 18 | 22:00 | 61.9 | 72.1 | 0 |
| 20230818T220500 | 2023 | 08 | 18 | 22:05 | 61.8 | 72.3 | 0 |
| 20230818T221000 | 2023 | 08 | 18 | 22:10 | 61.9 | 72.1 | 0 |
| 20230818T221500 | 2023 | 08 | 18 | 22:15 | 61.9 | 71.6 | 0 |
| 20230818T222000 | 2023 | 08 | 18 | 22:20 | 62 | 71.1 | 0 |
| 20230818T222500 | 2023 | 08 | 18 | 22:25 | 62.1 | 70.7 | 0 |
| 20230818T223000 | 2023 | 08 | 18 | 22:30 | 62.1 | 70.6 | 0 |
| 20230818T223500 | 2023 | 08 | 18 | 22:35 | 62.1 | 70.2 | 0 |
| 20230818T224000 | 2023 | 08 | 18 | 22:40 | 61.9 | 71.2 | 0 |
| 20230818T224500 | 2023 | 08 | 18 | 22:45 | 62 | 70.9 | 0 |
| 20230818T225000 | 2023 | 08 | 18 | 22:50 | 62 | 70.7 | 0 |
| 20230818T225500 | 2023 | 08 | 18 | 22:55 | 62 | 70.6 | 0 |
| 20230818T230000 | 2023 | 08 | 18 | 23:00 | 62.1 | 70.1 | 0 |
| 20230818T230500 | 2023 | 08 | 18 | 23:05 | 62 | 69.9 | 0 |
| 20230818T231000 | 2023 | 08 | 18 | 23:10 | 62 | 69.6 | 0 |
| 20230818T231500 | 2023 | 08 | 18 | 23:15 | 61.9 | 69.9 | 0 |
| 20230818T232000 | 2023 | 08 | 18 | 23:20 | 61.9 | 69.3 | 0 |
| 20230818T232500 | 2023 | 08 | 18 | 23:25 | 61.7 | 70.2 | 0 |
| 20230818T233000 | 2023 | 08 | 18 | 23:30 | 61.8 | 69.4 | 0 |
| 20230818T233500 | 2023 | 08 | 18 | 23:35 | 61.7 | 69.7 | 0 |
| 20230818T234000 | 2023 | 08 | 18 | 23:40 | 61.7 | 70.1 | 0 |
| 20230818T234500 | 2023 | 08 | 18 | 23:45 | 61.6 | 70.6 | 0 |
| 20230818T235000 | 2023 | 08 | 18 | 23:50 | 61.7 | 70.3 | 0 |
| 20230818T235500 | 2023 | 08 | 18 | 23:55 | 61.8 | 70 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230819T000000 | 2023 | 08 | 19 | 00:00 | 61.8 | 69.7 | 0 |
| 20230819T000500 | 2023 | 08 | 19 | 00:05 | 61.8 | 70 | 0 |
| 20230819T001000 | 2023 | 08 | 19 | 00:10 | 61.8 | 70.1 | 0 |
| 20230819T001500 | 2023 | 08 | 19 | 00:15 | 61.7 | 70.3 | 0 |
| 20230819T002000 | 2023 | 08 | 19 | 00:20 | 61.6 | 70.8 | 0 |
| 20230819T002500 | 2023 | 08 | 19 | 00:25 | 61.5 | 71.5 | 0 |
| 20230819T003000 | 2023 | 08 | 19 | 00:30 | 61.3 | 72.3 | 0 |
| 20230819T003500 | 2023 | 08 | 19 | 00:35 | 61.2 | 72.8 | 0 |
| 20230819T004000 | 2023 | 08 | 19 | 00:40 | 61.1 | 73.2 | 0 |
| 20230819T004500 | 2023 | 08 | 19 | 00:45 | 61.1 | 73.4 | 0 |
| 20230819T005000 | 2023 | 08 | 19 | 00:50 | 61.2 | 73.3 | 0 |
| 20230819T005500 | 2023 | 08 | 19 | 00:55 | 61.2 | 73 | 0 |
| 20230819T010000 | 2023 | 08 | 19 | 01:00 | 61.2 | 73.5 | 0 |
| 20230819T010500 | 2023 | 08 | 19 | 01:05 | 61.2 | 73.3 | 0 |
| 20230819T011000 | 2023 | 08 | 19 | 01:10 | 61.1 | 74.3 | 0 |
| 20230819T011500 | 2023 | 08 | 19 | 01:15 | 60.8 | 75.9 | 0 |
| 20230819T012000 | 2023 | 08 | 19 | 01:20 | 60.8 | 76.4 | 0 |
| 20230819T012500 | 2023 | 08 | 19 | 01:25 | 60.9 | 75.9 | 0 |
| 20230819T013000 | 2023 | 08 | 19 | 01:30 | 60.8 | 76.2 | 0 |
| 20230819T013500 | 2023 | 08 | 19 | 01:35 | 60.8 | 76.4 | 0 |
| 20230819T014000 | 2023 | 08 | 19 | 01:40 | 60.9 | 76.2 | 0 |
| 20230819T014500 | 2023 | 08 | 19 | 01:45 | 60.8 | 76.4 | 0 |
| 20230819T015000 | 2023 | 08 | 19 | 01:50 | 60.9 | 76.3 | 0 |
| 20230819T015500 | 2023 | 08 | 19 | 01:55 | 60.8 | 76.5 | 0 |
| 20230819T020000 | 2023 | 08 | 19 | 02:00 | 60.9 | 76.5 | 0 |
| 20230819T020500 | 2023 | 08 | 19 | 02:05 | 61 | 76.1 | 0 |
| 20230819T021000 | 2023 | 08 | 19 | 02:10 | 61 | 76 | 0 |
| 20230819T021500 | 2023 | 08 | 19 | 02:15 | 61 | 75.8 | 0 |
| 20230819T022000 | 2023 | 08 | 19 | 02:20 | 60.9 | 76.1 | 0 |
| 20230819T022500 | 2023 | 08 | 19 | 02:25 | 60.8 | 76.7 | 0 |
| 20230819T023000 | 2023 | 08 | 19 | 02:30 | 60.8 | 76.4 | 0 |
| 20230819T023500 | 2023 | 08 | 19 | 02:35 | 60.8 | 76.1 | 0 |
| 20230819T024000 | 2023 | 08 | 19 | 02:40 | 60.6 | 76.6 | 0 |
| 20230819T024500 | 2023 | 08 | 19 | 02:45 | 60.4 | 76.9 | 0 |
| 20230819T025000 | 2023 | 08 | 19 | 02:50 | 60.3 | 77.1 | 0 |
| 20230819T025500 | 2023 | 08 | 19 | 02:55 | 60.2 | 77.4 | 0 |
| 20230819T030000 | 2023 | 08 | 19 | 03:00 | 59.9 | 77.7 | 0 |
| 20230819T030500 | 2023 | 08 | 19 | 03:05 | 59.8 | 77.9 | 0 |
| 20230819T031000 | 2023 | 08 | 19 | 03:10 | 59.7 | 78 | 0 |
| 20230819T031500 | 2023 | 08 | 19 | 03:15 | 59.7 | 78 | 0 |
| 20230819T032000 | 2023 | 08 | 19 | 03:20 | 59.6 | 78.1 | 0 |
| 20230819T032500 | 2023 | 08 | 19 | 03:25 | 59.6 | 78.4 | 0 |
| 20230819T033000 | 2023 | 08 | 19 | 03:30 | 59.3 | 78.9 | 0 |
| 20230819T033500 | 2023 | 08 | 19 | 03:35 | 59.2 | 79.4 | 0 |
| 20230819T034000 | 2023 | 08 | 19 | 03:40 | 59.3 | 78.9 | 0 |
| 20230819T034500 | 2023 | 08 | 19 | 03:45 | 59.2 | 78.9 | 0 |
| 20230819T035000 | 2023 | 08 | 19 | 03:50 | 59.1 | 79.1 | 0 |
| 20230819T035500 | 2023 | 08 | 19 | 03:55 | 59.3 | 78.8 | 0 |
| 20230819T040000 | 2023 | 08 | 19 | 04:00 | 59.1 | 78.8 | 0 |
| 20230819T040500 | 2023 | 08 | 19 | 04:05 | 59 | 79.1 | 0 |
| 20230819T041000 | 2023 | 08 | 19 | 04:10 | 59 | 79 | 0 |
| 20230819T041500 | 2023 | 08 | 19 | 04:15 | 58.9 | 79.1 | 0 |
| 20230819T042000 | 2023 | 08 | 19 | 04:20 | 58.7 | 79.5 | 0 |
| 20230819T042500 | 2023 | 08 | 19 | 04:25 | 58.7 | 79.6 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230819T043000 | 2023 | 08 | 19 | 04:30 | 58.8 | 79.7 | 0 |
| 20230819T043500 | 2023 | 08 | 19 | 04:35 | 58.8 | 79.4 | 0 |
| 20230819T044000 | 2023 | 08 | 19 | 04:40 | 58.7 | 79.4 | 0 |
| 20230819T044500 | 2023 | 08 | 19 | 04:45 | 58.6 | 80.1 | 0 |
| 20230819T045000 | 2023 | 08 | 19 | 04:50 | 58.5 | 80.5 | 0 |
| 20230819T045500 | 2023 | 08 | 19 | 04:55 | 58.6 | 80.6 | 0 |
| 20230819T050000 | 2023 | 08 | 19 | 05:00 | 58.6 | 80.3 | 0 |
| 20230819T050500 | 2023 | 08 | 19 | 05:05 | 58.3 | 80.4 | 0 |
| 20230819T051000 | 2023 | 08 | 19 | 05:10 | 58.1 | 80.5 | 0 |
| 20230819T051500 | 2023 | 08 | 19 | 05:15 | 58.1 | 80.6 | 0 |
| 20230819T052000 | 2023 | 08 | 19 | 05:20 | 57.8 | 80.7 | 0 |
| 20230819T052500 | 2023 | 08 | 19 | 05:25 | 57.9 | 80.8 | 0 |
| 20230819T053000 | 2023 | 08 | 19 | 05:30 | 57.6 | 81.1 | 0 |
| 20230819T053500 | 2023 | 08 | 19 | 05:35 | 57.3 | 81.4 | 0 |
| 20230819T054000 | 2023 | 08 | 19 | 05:40 | 56.9 | 82.3 | 0 |
| 20230819T054500 | 2023 | 08 | 19 | 05:45 | 57.1 | 82.4 | 0 |
| 20230819T055000 | 2023 | 08 | 19 | 05:50 | 57.2 | 81.9 | 0 |
| 20230819T055500 | 2023 | 08 | 19 | 05:55 | 56.9 | 82.1 | 0 |
| 20230819T060000 | 2023 | 08 | 19 | 06:00 | 56.9 | 82.6 | 0 |
| 20230819T060500 | 2023 | 08 | 19 | 06:05 | 56.7 | 82.8 | 0 |
| 20230819T061000 | 2023 | 08 | 19 | 06:10 | 56.8 | 82.9 | 0 |
| 20230819T061500 | 2023 | 08 | 19 | 06:15 | 57 | 82.2 | 0 |
| 20230819T062000 | 2023 | 08 | 19 | 06:20 | 57.1 | 82.1 | 0 |
| 20230819T062500 | 2023 | 08 | 19 | 06:25 | 57.1 | 81.5 | 0 |
| 20230819T063000 | 2023 | 08 | 19 | 06:30 | 57.2 | 81.2 | 0 |
| 20230819T063500 | 2023 | 08 | 19 | 06:35 | 57.3 | 80.6 | 0 |
| 20230819T064000 | 2023 | 08 | 19 | 06:40 | 57.1 | 80.7 | 0 |
| 20230819T064500 | 2023 | 08 | 19 | 06:45 | 57.1 | 81 | 0 |
| 20230819T065000 | 2023 | 08 | 19 | 06:50 | 57.4 | 79.5 | 0 |
| 20230819T065500 | 2023 | 08 | 19 | 06:55 | 57.5 | 78.8 | 0 |
| 20230819T070000 | 2023 | 08 | 19 | 07:00 | 57.8 | 77.4 | 0 |
| 20230819T070500 | 2023 | 08 | 19 | 07:05 | 57.9 | 76.7 | 0 |
| 20230819T071000 | 2023 | 08 | 19 | 07:10 | 57.9 | 76.6 | 0 |
| 20230819T071500 | 2023 | 08 | 19 | 07:15 | 58.1 | 76 | 0 |
| 20230819T072000 | 2023 | 08 | 19 | 07:20 | 58 | 76.3 | 0 |
| 20230819T072500 | 2023 | 08 | 19 | 07:25 | 58.1 | 75.9 | 0 |
| 20230819T073000 | 2023 | 08 | 19 | 07:30 | 58.3 | 75 | 0 |
| 20230819T073500 | 2023 | 08 | 19 | 07:35 | 58.4 | 74.9 | 0 |
| 20230819T074000 | 2023 | 08 | 19 | 07:40 | 58.5 | 75.1 | 0 |
| 20230819T074500 | 2023 | 08 | 19 | 07:45 | 59.4 | 74 | 0 |
| 20230819T075000 | 2023 | 08 | 19 | 07:50 | 59.9 | 72.3 | 0 |
| 20230819T075500 | 2023 | 08 | 19 | 07:55 | 60 | 71.4 | 0 |
| 20230819T080000 | 2023 | 08 | 19 | 08:00 | 59.9 | 71.1 | 0 |
| 20230819T080500 | 2023 | 08 | 19 | 08:05 | 59.9 | 71.4 | 0 |
| 20230819T081000 | 2023 | 08 | 19 | 08:10 | 60.2 | 71.3 | 0 |
| 20230819T081500 | 2023 | 08 | 19 | 08:15 | 61.3 | 69.1 | 0 |
| 20230819T082000 | 2023 | 08 | 19 | 08:20 | 61.6 | 67.8 | 0 |
| 20230819T082500 | 2023 | 08 | 19 | 08:25 | 61.8 | 66.7 | 0 |
| 20230819T083000 | 2023 | 08 | 19 | 08:30 | 61.9 | 67 | 0 |
| 20230819T083500 | 2023 | 08 | 19 | 08:35 | 62.4 | 66.2 | 0 |
| 20230819T084000 | 2023 | 08 | 19 | 08:40 | 62.5 | 65.8 | 0 |
| 20230819T084500 | 2023 | 08 | 19 | 08:45 | 63 | 65.4 | 0 |
| 20230819T085000 | 2023 | 08 | 19 | 08:50 | 63.1 | 65.3 | 0 |
| 20230819T085500 | 2023 | 08 | 19 | 08:55 | 63.3 | 65.8 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230819T090000 | 2023 | 08 | 19 | 09:00 | 63.4 | 66 | 0 |
| 20230819T090500 | 2023 | 08 | 19 | 09:05 | 63.5 | 66.3 | 0 |
| 20230819T091000 | 2023 | 08 | 19 | 09:10 | 64.2 | 66.1 | 0 |
| 20230819T091500 | 2023 | 08 | 19 | 09:15 | 64.5 | 65.6 | 0 |
| 20230819T092000 | 2023 | 08 | 19 | 09:20 | 64.4 | 65 | 0 |
| 20230819T092500 | 2023 | 08 | 19 | 09:25 | 64.7 | 66 | 0 |
| 20230819T093000 | 2023 | 08 | 19 | 09:30 | 65.2 | 65.9 | 0 |
| 20230819T093500 | 2023 | 08 | 19 | 09:35 | 65.5 | 64.8 | 0 |
| 20230819T094000 | 2023 | 08 | 19 | 09:40 | 65.6 | 64.7 | 0 |
| 20230819T094500 | 2023 | 08 | 19 | 09:45 | 66 | 64.5 | 0 |
| 20230819T095000 | 2023 | 08 | 19 | 09:50 | 66.6 | 64.4 | 0 |
| 20230819T095500 | 2023 | 08 | 19 | 09:55 | 66.7 | 63.3 | 0 |
| 20230819T100000 | 2023 | 08 | 19 | 10:00 | 67 | 63.3 | 0 |
| 20230819T100500 | 2023 | 08 | 19 | 10:05 | 67.5 | 62.8 | 0 |
| 20230819T101000 | 2023 | 08 | 19 | 10:10 | 68 | 62.3 | 0 |
| 20230819T101500 | 2023 | 08 | 19 | 10:15 | 67.6 | 61.1 | 0 |
| 20230819T102000 | 2023 | 08 | 19 | 10:20 | 68.2 | 62.2 | 0 |
| 20230819T102500 | 2023 | 08 | 19 | 10:25 | 68.1 | 60.9 | 0 |
| 20230819T103000 | 2023 | 08 | 19 | 10:30 | 68.5 | 59.3 | 0 |
| 20230819T103500 | 2023 | 08 | 19 | 10:35 | 68.4 | 58 | 0 |
| 20230819T104000 | 2023 | 08 | 19 | 10:40 | 68.5 | 56.5 | 0 |
| 20230819T104500 | 2023 | 08 | 19 | 10:45 | 69.1 | 57 | 0 |
| 20230819T105000 | 2023 | 08 | 19 | 10:50 | 69.3 | 55.8 | 0 |
| 20230819T105500 | 2023 | 08 | 19 | 10:55 | 69.3 | 55.8 | 0 |
| 20230819T110000 | 2023 | 08 | 19 | 11:00 | 69.6 | 51.8 | 0 |
| 20230819T110500 | 2023 | 08 | 19 | 11:05 | 69.9 | 52.7 | 0 |
| 20230819T111000 | 2023 | 08 | 19 | 11:10 | 69.1 | 52.4 | 0 |
| 20230819T111500 | 2023 | 08 | 19 | 11:15 | 69.5 | 52.4 | 0 |
| 20230819T112000 | 2023 | 08 | 19 | 11:20 | 69.9 | 52.5 | 0 |
| 20230819T112500 | 2023 | 08 | 19 | 11:25 | 70.5 | 51.2 | 0 |
| 20230819T113000 | 2023 | 08 | 19 | 11:30 | 70.2 | 53.2 | 0 |
| 20230819T113500 | 2023 | 08 | 19 | 11:35 | 70 | 54.4 | 0 |
| 20230819T114000 | 2023 | 08 | 19 | 11:40 | 70.8 | 52.6 | 0 |
| 20230819T114500 | 2023 | 08 | 19 | 11:45 | 71.2 | 53 | 0 |
| 20230819T115000 | 2023 | 08 | 19 | 11:50 | 71.6 | 52.2 | 0 |
| 20230819T115500 | 2023 | 08 | 19 | 11:55 | 71.5 | 50.5 | 0 |
| 20230819T120000 | 2023 | 08 | 19 | 12:00 | 71.9 | 50.5 | 0 |
| 20230819T120500 | 2023 | 08 | 19 | 12:05 | 71.8 | 48 | 0 |
| 20230819T121000 | 2023 | 08 | 19 | 12:10 | 71.4 | 47.3 | 0 |
| 20230819T121500 | 2023 | 08 | 19 | 12:15 | 71.3 | 46.9 | 0 |
| 20230819T122000 | 2023 | 08 | 19 | 12:20 | 71.6 | 46.9 | 0 |
| 20230819T122500 | 2023 | 08 | 19 | 12:25 | 71.8 | 45.8 | 0 |
| 20230819T123000 | 2023 | 08 | 19 | 12:30 | 71.9 | 46.5 | 0 |
| 20230819T123500 | 2023 | 08 | 19 | 12:35 | 72 | 46.7 | 0 |
| 20230819T124000 | 2023 | 08 | 19 | 12:40 | 72.2 | 46.5 | 0 |
| 20230819T124500 | 2023 | 08 | 19 | 12:45 | 72.4 | 47 | 0 |
| 20230819T125000 | 2023 | 08 | 19 | 12:50 | 72.6 | 45.4 | 0 |
| 20230819T125500 | 2023 | 08 | 19 | 12:55 | 72.3 | 46.3 | 0 |
| 20230819T130000 | 2023 | 08 | 19 | 13:00 | 73.3 | 46.3 | 0 |
| 20230819T130500 | 2023 | 08 | 19 | 13:05 | 72.9 | 44.9 | 0 |
| 20230819T131000 | 2023 | 08 | 19 | 13:10 | 72.8 | 46.1 | 0 |
| 20230819T131500 | 2023 | 08 | 19 | 13:15 | 73 | 45.4 | 0 |
| 20230819T132000 | 2023 | 08 | 19 | 13:20 | 73.5 | 46.3 | 0 |
| 20230819T132500 | 2023 | 08 | 19 | 13:25 | 73.7 | 44.7 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230819T133000 | 2023 | 08 | 19 | 13:30 | 73.3 | 44.3 | 0 |
| 20230819T133500 | 2023 | 08 | 19 | 13:35 | 73.9 | 45.2 | 0 |
| 20230819T134000 | 2023 | 08 | 19 | 13:40 | 73.4 | 45.6 | 0 |
| 20230819T134500 | 2023 | 08 | 19 | 13:45 | 75.2 | 45.2 | 0 |
| 20230819T135000 | 2023 | 08 | 19 | 13:50 | 74.6 | 41.8 | 0 |
| 20230819T135500 | 2023 | 08 | 19 | 13:55 | 74.4 | 42.8 | 0 |
| 20230819T140000 | 2023 | 08 | 19 | 14:00 | 74.5 | 43.3 | 0 |
| 20230819T140500 | 2023 | 08 | 19 | 14:05 | 74.6 | 42.1 | 0 |
| 20230819T141000 | 2023 | 08 | 19 | 14:10 | 74.9 | 42.6 | 0 |
| 20230819T141500 | 2023 | 08 | 19 | 14:15 | 75 | 41.8 | 0 |
| 20230819T142000 | 2023 | 08 | 19 | 14:20 | 75.1 | 42.7 | 0 |
| 20230819T142500 | 2023 | 08 | 19 | 14:25 | 75.1 | 42.6 | 0 |
| 20230819T143000 | 2023 | 08 | 19 | 14:30 | 75.1 | 41.2 | 0 |
| 20230819T143500 | 2023 | 08 | 19 | 14:35 | 74.8 | 41.2 | 0 |
| 20230819T144000 | 2023 | 08 | 19 | 14:40 | 75.6 | 40.2 | 0 |
| 20230819T144500 | 2023 | 08 | 19 | 14:45 | 75.6 | 39.8 | 0 |
| 20230819T145000 | 2023 | 08 | 19 | 14:50 | 75.6 | 40 | 0 |
| 20230819T145500 | 2023 | 08 | 19 | 14:55 | 76 | 40.5 | 0 |
| 20230819T150000 | 2023 | 08 | 19 | 15:00 | 75.6 | 42 | 0 |
| 20230819T150500 | 2023 | 08 | 19 | 15:05 | 75.5 | 40.5 | 0 |
| 20230819T151000 | 2023 | 08 | 19 | 15:10 | 75.7 | 41.1 | 0 |
| 20230819T151500 | 2023 | 08 | 19 | 15:15 | 75.7 | 39.6 | 0 |
| 20230819T152000 | 2023 | 08 | 19 | 15:20 | 76 | 40.1 | 0 |
| 20230819T152500 | 2023 | 08 | 19 | 15:25 | 76.4 | 39.7 | 0 |
| 20230819T153000 | 2023 | 08 | 19 | 15:30 | 75.8 | 39.2 | 0 |
| 20230819T153500 | 2023 | 08 | 19 | 15:35 | 75.5 | 40 | 0 |
| 20230819T154000 | 2023 | 08 | 19 | 15:40 | 76 | 39.9 | 0 |
| 20230819T154500 | 2023 | 08 | 19 | 15:45 | 76.1 | 40 | 0 |
| 20230819T155000 | 2023 | 08 | 19 | 15:50 | 76.2 | 41.2 | 0 |
| 20230819T155500 | 2023 | 08 | 19 | 15:55 | 76 | 41.4 | 0 |
| 20230819T160000 | 2023 | 08 | 19 | 16:00 | 76.2 | 41.6 | 0 |
| 20230819T160500 | 2023 | 08 | 19 | 16:05 | 76.3 | 41.5 | 0 |
| 20230819T161000 | 2023 | 08 | 19 | 16:10 | 75.9 | 41 | 0 |
| 20230819T161500 | 2023 | 08 | 19 | 16:15 | 75.8 | 40.5 | 0 |
| 20230819T162000 | 2023 | 08 | 19 | 16:20 | 76.6 | 40.5 | 0 |
| 20230819T162500 | 2023 | 08 | 19 | 16:25 | 76 | 39.4 | 0 |
| 20230819T163000 | 2023 | 08 | 19 | 16:30 | 75.9 | 39.5 | 0 |
| 20230819T163500 | 2023 | 08 | 19 | 16:35 | 76.1 | 40.2 | 0 |
| 20230819T164000 | 2023 | 08 | 19 | 16:40 | 75.5 | 40 | 0 |
| 20230819T164500 | 2023 | 08 | 19 | 16:45 | 75.7 | 40.4 | 0 |
| 20230819T165000 | 2023 | 08 | 19 | 16:50 | 75.9 | 41.2 | 0 |
| 20230819T165500 | 2023 | 08 | 19 | 16:55 | 76.5 | 41.6 | 0 |
| 20230819T170000 | 2023 | 08 | 19 | 17:00 | 75.8 | 39 | 0 |
| 20230819T170500 | 2023 | 08 | 19 | 17:05 | 75.9 | 39.9 | 0 |
| 20230819T171000 | 2023 | 08 | 19 | 17:10 | 75.5 | 40 | 0 |
| 20230819T171500 | 2023 | 08 | 19 | 17:15 | 75.4 | 40.5 | 0 |
| 20230819T172000 | 2023 | 08 | 19 | 17:20 | 75.8 | 41.6 | 0 |
| 20230819T172500 | 2023 | 08 | 19 | 17:25 | 75.8 | 42.3 | 0 |
| 20230819T173000 | 2023 | 08 | 19 | 17:30 | 76 | 42.4 | 0 |
| 20230819T173500 | 2023 | 08 | 19 | 17:35 | 75.7 | 42.2 | 0 |
| 20230819T174000 | 2023 | 08 | 19 | 17:40 | 75.8 | 42.4 | 0 |
| 20230819T174500 | 2023 | 08 | 19 | 17:45 | 75.7 | 42.4 | 0 |
| 20230819T175000 | 2023 | 08 | 19 | 17:50 | 75.7 | 42.7 | 0 |
| 20230819T175500 | 2023 | 08 | 19 | 17:55 | 75.7 | 43 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230819T180000 | 2023 | 08 | 19 | 18:00 | 75.4 | 43.3 | 0 |
| 20230819T180500 | 2023 | 08 | 19 | 18:05 | 75.1 | 42.6 | 0 |
| 20230819T181000 | 2023 | 08 | 19 | 18:10 | 75.1 | 43.6 | 0 |
| 20230819T181500 | 2023 | 08 | 19 | 18:15 | 74.7 | 43.8 | 0 |
| 20230819T182000 | 2023 | 08 | 19 | 18:20 | 74.5 | 44.8 | 0 |
| 20230819T182500 | 2023 | 08 | 19 | 18:25 | 74.4 | 45.2 | 0 |
| 20230819T183000 | 2023 | 08 | 19 | 18:30 | 74.1 | 45.3 | 0 |
| 20230819T183500 | 2023 | 08 | 19 | 18:35 | 74 | 46 | 0 |
| 20230819T184000 | 2023 | 08 | 19 | 18:40 | 73.8 | 46 | 0 |
| 20230819T184500 | 2023 | 08 | 19 | 18:45 | 73 | 47.5 | 0 |
| 20230819T185000 | 2023 | 08 | 19 | 18:50 | 72.6 | 48.8 | 0 |
| 20230819T185500 | 2023 | 08 | 19 | 18:55 | 72.6 | 48.5 | 0 |
| 20230819T190000 | 2023 | 08 | 19 | 19:00 | 72.2 | 48.6 | 0 |
| 20230819T190500 | 2023 | 08 | 19 | 19:05 | 71.7 | 49.4 | 0 |
| 20230819T191000 | 2023 | 08 | 19 | 19:10 | 71.3 | 50.3 | 0 |
| 20230819T191500 | 2023 | 08 | 19 | 19:15 | 70.6 | 51.6 | 0 |
| 20230819T192000 | 2023 | 08 | 19 | 19:20 | 70.2 | 52.5 | 0 |
| 20230819T192500 | 2023 | 08 | 19 | 19:25 | 70.1 | 53 | 0 |
| 20230819T193000 | 2023 | 08 | 19 | 19:30 | 69.5 | 53.9 | 0 |
| 20230819T193500 | 2023 | 08 | 19 | 19:35 | 69.4 | 54.6 | 0 |
| 20230819T194000 | 2023 | 08 | 19 | 19:40 | 69.3 | 54.7 | 0 |
| 20230819T194500 | 2023 | 08 | 19 | 19:45 | 69.1 | 54.8 | 0 |
| 20230819T195000 | 2023 | 08 | 19 | 19:50 | 68.5 | 55.7 | 0 |
| 20230819T195500 | 2023 | 08 | 19 | 19:55 | 67.9 | 57.2 | 0 |
| 20230819T200000 | 2023 | 08 | 19 | 20:00 | 67.5 | 58.2 | 0 |
| 20230819T200500 | 2023 | 08 | 19 | 20:05 | 67.2 | 59 | 0 |
| 20230819T201000 | 2023 | 08 | 19 | 20:10 | 66.9 | 59.5 | 0 |
| 20230819T201500 | 2023 | 08 | 19 | 20:15 | 66.8 | 59.9 | 0 |
| 20230819T202000 | 2023 | 08 | 19 | 20:20 | 66.9 | 60.1 | 0 |
| 20230819T202500 | 2023 | 08 | 19 | 20:25 | 66.5 | 60.6 | 0 |
| 20230819T203000 | 2023 | 08 | 19 | 20:30 | 65.9 | 61.7 | 0 |
| 20230819T203500 | 2023 | 08 | 19 | 20:35 | 66.1 | 61.6 | 0 |
| 20230819T204000 | 2023 | 08 | 19 | 20:40 | 65.7 | 62.4 | 0 |
| 20230819T204500 | 2023 | 08 | 19 | 20:45 | 64.5 | 65.9 | 0 |
| 20230819T205000 | 2023 | 08 | 19 | 20:50 | 64.8 | 65.4 | 0 |
| 20230819T205500 | 2023 | 08 | 19 | 20:55 | 64.6 | 65.9 | 0 |
| 20230819T210000 | 2023 | 08 | 19 | 21:00 | 65.1 | 65.6 | 0 |
| 20230819T210500 | 2023 | 08 | 19 | 21:05 | 65.1 | 64.9 | 0 |
| 20230819T211000 | 2023 | 08 | 19 | 21:10 | 63.3 | 68.7 | 0 |
| 20230819T211500 | 2023 | 08 | 19 | 21:15 | 62.9 | 72.7 | 0 |
| 20230819T212000 | 2023 | 08 | 19 | 21:20 | 61.9 | 76.8 | 0 |
| 20230819T212500 | 2023 | 08 | 19 | 21:25 | 62.7 | 75.6 | 0 |
| 20230819T213000 | 2023 | 08 | 19 | 21:30 | 62.3 | 73.6 | 0 |
| 20230819T213500 | 2023 | 08 | 19 | 21:35 | 62.3 | 74.6 | 0 |
| 20230819T214000 | 2023 | 08 | 19 | 21:40 | 62.9 | 73.8 | 0 |
| 20230819T214500 | 2023 | 08 | 19 | 21:45 | 62.6 | 73.4 | 0 |
| 20230819T215000 | 2023 | 08 | 19 | 21:50 | 62.3 | 73.9 | 0 |
| 20230819T215500 | 2023 | 08 | 19 | 21:55 | 61.5 | 77.9 | 0 |
| 20230819T220000 | 2023 | 08 | 19 | 22:00 | 62 | 75.2 | 0 |
| 20230819T220500 | 2023 | 08 | 19 | 22:05 | 62.7 | 72.1 | 0 |
| 20230819T221000 | 2023 | 08 | 19 | 22:10 | 63.2 | 69.6 | 0 |
| 20230819T221500 | 2023 | 08 | 19 | 22:15 | 63 | 69.7 | 0 |
| 20230819T222000 | 2023 | 08 | 19 | 22:20 | 62.2 | 71.5 | 0 |
| 20230819T222500 | 2023 | 08 | 19 | 22:25 | 62.5 | 70.2 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230819T223000 | 2023 | 08 | 19 | 22:30 | 63.4 | 68 | 0 |
| 20230819T223500 | 2023 | 08 | 19 | 22:35 | 63.2 | 67.8 | 0 |
| 20230819T224000 | 2023 | 08 | 19 | 22:40 | 62.6 | 69.5 | 0 |
| 20230819T224500 | 2023 | 08 | 19 | 22:45 | 63 | 69.1 | 0 |
| 20230819T225000 | 2023 | 08 | 19 | 22:50 | 63.2 | 67.6 | 0 |
| 20230819T225500 | 2023 | 08 | 19 | 22:55 | 63.2 | 67.5 | 0 |
| 20230819T230000 | 2023 | 08 | 19 | 23:00 | 63.4 | 66.6 | 0 |
| 20230819T230500 | 2023 | 08 | 19 | 23:05 | 62.8 | 68 | 0 |
| 20230819T231000 | 2023 | 08 | 19 | 23:10 | 63.2 | 67.5 | 0 |
| 20230819T231500 | 2023 | 08 | 19 | 23:15 | 63.2 | 66.9 | 0 |
| 20230819T232000 | 2023 | 08 | 19 | 23:20 | 63.2 | 66.8 | 0 |
| 20230819T232500 | 2023 | 08 | 19 | 23:25 | 62.8 | 67.4 | 0 |
| 20230819T233000 | 2023 | 08 | 19 | 23:30 | 62.4 | 68.5 | 0 |
| 20230819T233500 | 2023 | 08 | 19 | 23:35 | 62.2 | 69.1 | 0 |
| 20230819T234000 | 2023 | 08 | 19 | 23:40 | 62.4 | 68.6 | 0 |
| 20230819T234500 | 2023 | 08 | 19 | 23:45 | 62.6 | 68.2 | 0 |
| 20230819T235000 | 2023 | 08 | 19 | 23:50 | 62.4 | 68.5 | 0 |
| 20230819T235500 | 2023 | 08 | 19 | 23:55 | 62.1 | 69.1 | 0 |
| 20230820T000000 | 2023 | 08 | 20 | 00:00 | 62.4 | 69 | 0 |
| 20230820T000500 | 2023 | 08 | 20 | 00:05 | 62.4 | 68.5 | 0 |
| 20230820T001000 | 2023 | 08 | 20 | 00:10 | 62.2 | 68.9 | 0 |
| 20230820T001500 | 2023 | 08 | 20 | 00:15 | 62.3 | 69 | 0 |
| 20230820T002000 | 2023 | 08 | 20 | 00:20 | 62.5 | 67.9 | 0 |
| 20230820T002500 | 2023 | 08 | 20 | 00:25 | 62.2 | 68.1 | 0 |
| 20230820T003000 | 2023 | 08 | 20 | 00:30 | 61.7 | 69.2 | 0 |
| 20230820T003500 | 2023 | 08 | 20 | 00:35 | 62.1 | 68.8 | 0 |
| 20230820T004000 | 2023 | 08 | 20 | 00:40 | 62.1 | 68.3 | 0 |
| 20230820T004500 | 2023 | 08 | 20 | 00:45 | 62 | 67.9 | 0 |
| 20230820T005000 | 2023 | 08 | 20 | 00:50 | 62.3 | 67.2 | 0 |
| 20230820T005500 | 2023 | 08 | 20 | 00:55 | 62.4 | 66.4 | 0 |
| 20230820T010000 | 2023 | 08 | 20 | 01:00 | 62.4 | 65.8 | 0 |
| 20230820T010500 | 2023 | 08 | 20 | 01:05 | 62.1 | 65.6 | 0 |
| 20230820T011000 | 2023 | 08 | 20 | 01:10 | 61.2 | 67.7 | 0 |
| 20230820T011500 | 2023 | 08 | 20 | 01:15 | 61.6 | 66.7 | 0 |
| 20230820T012000 | 2023 | 08 | 20 | 01:20 | 61.3 | 67 | 0 |
| 20230820T012500 | 2023 | 08 | 20 | 01:25 | 61.2 | 67.3 | 0 |
| 20230820T013000 | 2023 | 08 | 20 | 01:30 | 61.2 | 67.1 | 0 |
| 20230820T013500 | 2023 | 08 | 20 | 01:35 | 61.2 | 67.2 | 0 |
| 20230820T014000 | 2023 | 08 | 20 | 01:40 | 61.2 | 66.5 | 0 |
| 20230820T014500 | 2023 | 08 | 20 | 01:45 | 59.7 | 69.9 | 0 |
| 20230820T015000 | 2023 | 08 | 20 | 01:50 | 57.7 | 74.8 | 0 |
| 20230820T015500 | 2023 | 08 | 20 | 01:55 | 56.7 | 80.3 | 0 |
| 20230820T020000 | 2023 | 08 | 20 | 02:00 | 55.8 | 84.5 | 0 |
| 20230820T020500 | 2023 | 08 | 20 | 02:05 | 55.9 | 87.2 | 0 |
| 20230820T021000 | 2023 | 08 | 20 | 02:10 | 55.4 | 87.8 | 0 |
| 20230820T021500 | 2023 | 08 | 20 | 02:15 | 54.8 | 89.1 | 0 |
| 20230820T022000 | 2023 | 08 | 20 | 02:20 | 54.9 | 90.3 | 0 |
| 20230820T022500 | 2023 | 08 | 20 | 02:25 | 54.9 | 91 | 0 |
| 20230820T023000 | 2023 | 08 | 20 | 02:30 | 55 | 91 | 0 |
| 20230820T023500 | 2023 | 08 | 20 | 02:35 | 55 | 90.8 | 0 |
| 20230820T024000 | 2023 | 08 | 20 | 02:40 | 55.3 | 90.8 | 0 |
| 20230820T024500 | 2023 | 08 | 20 | 02:45 | 55.8 | 90.4 | 0 |
| 20230820T025000 | 2023 | 08 | 20 | 02:50 | 55.8 | 89 | 0 |
| 20230820T025500 | 2023 | 08 | 20 | 02:55 | 55.5 | 88.1 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230820T030000 | 2023 | 08 | 20 | 03:00 | 54.9 | 88.7 | 0 |
| 20230820T030500 | 2023 | 08 | 20 | 03:05 | 54.3 | 90 | 0 |
| 20230820T031000 | 2023 | 08 | 20 | 03:10 | 54.3 | 91.1 | 0 |
| 20230820T031500 | 2023 | 08 | 20 | 03:15 | 54.2 | 92 | 0 |
| 20230820T032000 | 2023 | 08 | 20 | 03:20 | 54 | 92.3 | 0 |
| 20230820T032500 | 2023 | 08 | 20 | 03:25 | 54.7 | 92.7 | 0 |
| 20230820T033000 | 2023 | 08 | 20 | 03:30 | 54.4 | 92.7 | 0 |
| 20230820T033500 | 2023 | 08 | 20 | 03:35 | 54.5 | 91.5 | 0 |
| 20230820T034000 | 2023 | 08 | 20 | 03:40 | 53.9 | 91.8 | 0 |
| 20230820T034500 | 2023 | 08 | 20 | 03:45 | 53.7 | 92.7 | 0 |
| 20230820T035000 | 2023 | 08 | 20 | 03:50 | 54 | 92.9 | 0 |
| 20230820T035500 | 2023 | 08 | 20 | 03:55 | 54 | 92.4 | 0 |
| 20230820T040000 | 2023 | 08 | 20 | 04:00 | 54.4 | 92.7 | 0 |
| 20230820T040500 | 2023 | 08 | 20 | 04:05 | 54.7 | 92 | 0 |
| 20230820T041000 | 2023 | 08 | 20 | 04:10 | 54 | 91.7 | 0 |
| 20230820T041500 | 2023 | 08 | 20 | 04:15 | 54.1 | 92 | 0 |
| 20230820T042000 | 2023 | 08 | 20 | 04:20 | 54.4 | 92.7 | 0 |
| 20230820T042500 | 2023 | 08 | 20 | 04:25 | 54.5 | 93 | 0 |
| 20230820T043000 | 2023 | 08 | 20 | 04:30 | 54.4 | 92.9 | 0 |
| 20230820T043500 | 2023 | 08 | 20 | 04:35 | 54.4 | 92.8 | 0 |
| 20230820T044000 | 2023 | 08 | 20 | 04:40 | 54.7 | 93.2 | 0 |
| 20230820T044500 | 2023 | 08 | 20 | 04:45 | 54.7 | 92.2 | 0 |
| 20230820T045000 | 2023 | 08 | 20 | 04:50 | 54.2 | 91.6 | 0 |
| 20230820T045500 | 2023 | 08 | 20 | 04:55 | 55.1 | 92.5 | 0 |
| 20230820T050000 | 2023 | 08 | 20 | 05:00 | 56.2 | 92.5 | 0 |
| 20230820T050500 | 2023 | 08 | 20 | 05:05 | 56.5 | 91.3 | 0 |
| 20230820T051000 | 2023 | 08 | 20 | 05:10 | 57.4 | 91.6 | 0 |
| 20230820T051500 | 2023 | 08 | 20 | 05:15 | 57.6 | 91.8 | 0 |
| 20230820T052000 | 2023 | 08 | 20 | 05:20 | 57.7 | 91.7 | 0 |
| 20230820T052500 | 2023 | 08 | 20 | 05:25 | 57.9 | 91.9 | 0 |
| 20230820T053000 | 2023 | 08 | 20 | 05:30 | 57.9 | 91.8 | 0 |
| 20230820T053500 | 2023 | 08 | 20 | 05:35 | 57.7 | 92 | 0 |
| 20230820T054000 | 2023 | 08 | 20 | 05:40 | 57.3 | 91.5 | 0 |
| 20230820T054500 | 2023 | 08 | 20 | 05:45 | 57.1 | 90.6 | 0 |
| 20230820T055000 | 2023 | 08 | 20 | 05:50 | 56.3 | 90.4 | 0 |
| 20230820T055500 | 2023 | 08 | 20 | 05:55 | 56.5 | 91.6 | 0 |
| 20230820T060000 | 2023 | 08 | 20 | 06:00 | 57.3 | 91.7 | 0 |
| 20230820T060500 | 2023 | 08 | 20 | 06:05 | 56.9 | 90.8 | 0 |
| 20230820T061000 | 2023 | 08 | 20 | 06:10 | 56.4 | 90.6 | 0 |
| 20230820T061500 | 2023 | 08 | 20 | 06:15 | 56.4 | 91.2 | 0 |
| 20230820T062000 | 2023 | 08 | 20 | 06:20 | 56.3 | 92.4 | 0 |
| 20230820T062500 | 2023 | 08 | 20 | 06:25 | 56.2 | 92.9 | 0 |
| 20230820T063000 | 2023 | 08 | 20 | 06:30 | 56.2 | 93.7 | 0 |
| 20230820T063500 | 2023 | 08 | 20 | 06:35 | 56.8 | 94.4 | 0 |
| 20230820T064000 | 2023 | 08 | 20 | 06:40 | 57.2 | 94.4 | 0 |
| 20230820T064500 | 2023 | 08 | 20 | 06:45 | 57.9 | 94.2 | 0 |
| 20230820T065000 | 2023 | 08 | 20 | 06:50 | 58.1 | 93.9 | 0 |
| 20230820T065500 | 2023 | 08 | 20 | 06:55 | 59 | 93.6 | 0 |
| 20230820T070000 | 2023 | 08 | 20 | 07:00 | 59.5 | 92.5 | 0 |
| 20230820T070500 | 2023 | 08 | 20 | 07:05 | 59.7 | 91.6 | 0 |
| 20230820T071000 | 2023 | 08 | 20 | 07:10 | 59.9 | 91.1 | 0 |
| 20230820T071500 | 2023 | 08 | 20 | 07:15 | 60.1 | 90.7 | 0 |
| 20230820T072000 | 2023 | 08 | 20 | 07:20 | 60.5 | 89.6 | 0 |
| 20230820T072500 | 2023 | 08 | 20 | 07:25 | 60.8 | 88.8 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230820T073000 | 2023 | 08 | 20 | 07:30 | 61 | 88.6 | 0 |
| 20230820T073500 | 2023 | 08 | 20 | 07:35 | 61.4 | 88 | 0 |
| 20230820T074000 | 2023 | 08 | 20 | 07:40 | 61.6 | 87.4 | 0 |
| 20230820T074500 | 2023 | 08 | 20 | 07:45 | 61.8 | 86.9 | 0 |
| 20230820T075000 | 2023 | 08 | 20 | 07:50 | 62 | 87 | 0 |
| 20230820T075500 | 2023 | 08 | 20 | 07:55 | 62.2 | 86.1 | 0 |
| 20230820T080000 | 2023 | 08 | 20 | 08:00 | 62.4 | 85.8 | 0 |
| 20230820T080500 | 2023 | 08 | 20 | 08:05 | 62.6 | 85.8 | 0 |
| 20230820T081000 | 2023 | 08 | 20 | 08:10 | 62.8 | 85.1 | 0 |
| 20230820T081500 | 2023 | 08 | 20 | 08:15 | 63.1 | 85 | 0 |
| 20230820T082000 | 2023 | 08 | 20 | 08:20 | 63.3 | 84 | 0 |
| 20230820T082500 | 2023 | 08 | 20 | 08:25 | 63.5 | 83.3 | 0 |
| 20230820T083000 | 2023 | 08 | 20 | 08:30 | 63.8 | 82.7 | 0 |
| 20230820T083500 | 2023 | 08 | 20 | 08:35 | 64.1 | 81.9 | 0 |
| 20230820T084000 | 2023 | 08 | 20 | 08:40 | 64.3 | 81.7 | 0 |
| 20230820T084500 | 2023 | 08 | 20 | 08:45 | 64.5 | 80.6 | 0 |
| 20230820T085000 | 2023 | 08 | 20 | 08:50 | 65.1 | 80.5 | 0 |
| 20230820T085500 | 2023 | 08 | 20 | 08:55 | 65.7 | 78.3 | 0 |
| 20230820T090000 | 2023 | 08 | 20 | 09:00 | 65.8 | 77.7 | 0 |
| 20230820T090500 | 2023 | 08 | 20 | 09:05 | 66.7 | 77.4 | 0 |
| 20230820T091000 | 2023 | 08 | 20 | 09:10 | 66.7 | 75.2 | 0 |
| 20230820T091500 | 2023 | 08 | 20 | 09:15 | 66.7 | 75.9 | 0 |
| 20230820T092000 | 2023 | 08 | 20 | 09:20 | 67.1 | 74.9 | 0 |
| 20230820T092500 | 2023 | 08 | 20 | 09:25 | 67.2 | 74.1 | 0 |
| 20230820T093000 | 2023 | 08 | 20 | 09:30 | 68 | 73.1 | 0 |
| 20230820T093500 | 2023 | 08 | 20 | 09:35 | 68.7 | 72.3 | 0 |
| 20230820T094000 | 2023 | 08 | 20 | 09:40 | 68.9 | 70.8 | 0 |
| 20230820T094500 | 2023 | 08 | 20 | 09:45 | 70 | 68.2 | 0 |
| 20230820T095000 | 2023 | 08 | 20 | 09:50 | 70.6 | 67.4 | 0 |
| 20230820T095500 | 2023 | 08 | 20 | 09:55 | 70.8 | 65.7 | 0 |
| 20230820T100000 | 2023 | 08 | 20 | 10:00 | 70.6 | 67.1 | 0 |
| 20230820T100500 | 2023 | 08 | 20 | 10:05 | 70.1 | 66.7 | 0 |
| 20230820T101000 | 2023 | 08 | 20 | 10:10 | 69.9 | 68.9 | 0 |
| 20230820T101500 | 2023 | 08 | 20 | 10:15 | 69.7 | 69 | 0 |
| 20230820T102000 | 2023 | 08 | 20 | 10:20 | 69.7 | 68.7 | 0 |
| 20230820T102500 | 2023 | 08 | 20 | 10:25 | 69.8 | 68.7 | 0 |
| 20230820T103000 | 2023 | 08 | 20 | 10:30 | 70.6 | 67.6 | 0 |
| 20230820T103500 | 2023 | 08 | 20 | 10:35 | 71.7 | 65 | 0 |
| 20230820T104000 | 2023 | 08 | 20 | 10:40 | 72.2 | 63.2 | 0 |
| 20230820T104500 | 2023 | 08 | 20 | 10:45 | 72.1 | 63 | 0 |
| 20230820T105000 | 2023 | 08 | 20 | 10:50 | 72.5 | 62.6 | 0 |
| 20230820T105500 | 2023 | 08 | 20 | 10:55 | 73.5 | 62.2 | 0 |
| 20230820T110000 | 2023 | 08 | 20 | 11:00 | 73.6 | 61.6 | 0 |
| 20230820T110500 | 2023 | 08 | 20 | 11:05 | 73.5 | 60.4 | 0 |
| 20230820T111000 | 2023 | 08 | 20 | 11:10 | 74.1 | 60.6 | 0 |
| 20230820T111500 | 2023 | 08 | 20 | 11:15 | 75 | 60.7 | 0 |
| 20230820T112000 | 2023 | 08 | 20 | 11:20 | 75 | 60.8 | 0 |
| 20230820T112500 | 2023 | 08 | 20 | 11:25 | 75.9 | 58.9 | 0 |
| 20230820T113000 | 2023 | 08 | 20 | 11:30 | 75.8 | 58.2 | 0 |
| 20230820T113500 | 2023 | 08 | 20 | 11:35 | 75.7 | 57.4 | 0 |
| 20230820T114000 | 2023 | 08 | 20 | 11:40 | 75.7 | 58.4 | 0 |
| 20230820T114500 | 2023 | 08 | 20 | 11:45 | 76.6 | 58.9 | 0 |
| 20230820T115000 | 2023 | 08 | 20 | 11:50 | 76.7 | 56.9 | 0 |
| 20230820T115500 | 2023 | 08 | 20 | 11:55 | 77 | 56.7 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230820T120000 | 2023 | 08 | 20 | 12:00 | 77.3 | 55.5 | 0 |
| 20230820T120500 | 2023 | 08 | 20 | 12:05 | 77.6 | 54.9 | 0 |
| 20230820T121000 | 2023 | 08 | 20 | 12:10 | 77.7 | 54.2 | 0 |
| 20230820T121500 | 2023 | 08 | 20 | 12:15 | 77.8 | 53.2 | 0 |
| 20230820T122000 | 2023 | 08 | 20 | 12:20 | 78.1 | 53.6 | 0 |
| 20230820T122500 | 2023 | 08 | 20 | 12:25 | 78.5 | 53.8 | 0 |
| 20230820T123000 | 2023 | 08 | 20 | 12:30 | 78.4 | 53.2 | 0 |
| 20230820T123500 | 2023 | 08 | 20 | 12:35 | 77.9 | 53.2 | 0 |
| 20230820T124000 | 2023 | 08 | 20 | 12:40 | 78.5 | 54.7 | 0 |
| 20230820T124500 | 2023 | 08 | 20 | 12:45 | 79.1 | 53 | 0 |
| 20230820T125000 | 2023 | 08 | 20 | 12:50 | 79.3 | 52.4 | 0 |
| 20230820T125500 | 2023 | 08 | 20 | 12:55 | 79.2 | 53.7 | 0 |
| 20230820T130000 | 2023 | 08 | 20 | 13:00 | 78.9 | 51.4 | 0 |
| 20230820T130500 | 2023 | 08 | 20 | 13:05 | 78.6 | 53.5 | 0 |
| 20230820T131000 | 2023 | 08 | 20 | 13:10 | 79.5 | 52.7 | 0 |
| 20230820T131500 | 2023 | 08 | 20 | 13:15 | 80.1 | 51.3 | 0 |
| 20230820T132000 | 2023 | 08 | 20 | 13:20 | 79.2 | 52.3 | 0 |
| 20230820T132500 | 2023 | 08 | 20 | 13:25 | 79.4 | 50.7 | 0 |
| 20230820T133000 | 2023 | 08 | 20 | 13:30 | 79.3 | 51.6 | 0 |
| 20230820T133500 | 2023 | 08 | 20 | 13:35 | 79.7 | 51.7 | 0 |
| 20230820T134000 | 2023 | 08 | 20 | 13:40 | 79.2 | 52.1 | 0 |
| 20230820T134500 | 2023 | 08 | 20 | 13:45 | 80.4 | 52.2 | 0 |
| 20230820T135000 | 2023 | 08 | 20 | 13:50 | 80.9 | 49.7 | 0 |
| 20230820T135500 | 2023 | 08 | 20 | 13:55 | 80.3 | 50 | 0 |
| 20230820T140000 | 2023 | 08 | 20 | 14:00 | 80.5 | 50.1 | 0 |
| 20230820T140500 | 2023 | 08 | 20 | 14:05 | 79.7 | 51.7 | 0 |
| 20230820T141000 | 2023 | 08 | 20 | 14:10 | 80.8 | 50.4 | 0 |
| 20230820T141500 | 2023 | 08 | 20 | 14:15 | 81.6 | 49.1 | 0 |
| 20230820T142000 | 2023 | 08 | 20 | 14:20 | 81.8 | 47.4 | 0 |
| 20230820T142500 | 2023 | 08 | 20 | 14:25 | 80.6 | 48.4 | 0 |
| 20230820T143000 | 2023 | 08 | 20 | 14:30 | 81.3 | 48 | 0 |
| 20230820T143500 | 2023 | 08 | 20 | 14:35 | 80.8 | 48.2 | 0 |
| 20230820T144000 | 2023 | 08 | 20 | 14:40 | 80.7 | 49 | 0 |
| 20230820T144500 | 2023 | 08 | 20 | 14:45 | 81.8 | 49.9 | 0 |
| 20230820T145000 | 2023 | 08 | 20 | 14:50 | 80.8 | 48.4 | 0 |
| 20230820T145500 | 2023 | 08 | 20 | 14:55 | 80.5 | 49.9 | 0 |
| 20230820T150000 | 2023 | 08 | 20 | 15:00 | 81.4 | 49.6 | 0 |
| 20230820T150500 | 2023 | 08 | 20 | 15:05 | 81.5 | 50 | 0 |
| 20230820T151000 | 2023 | 08 | 20 | 15:10 | 81.1 | 50.5 | 0 |
| 20230820T151500 | 2023 | 08 | 20 | 15:15 | 81.5 | 51.2 | 0 |
| 20230820T152000 | 2023 | 08 | 20 | 15:20 | 81.4 | 49.7 | 0 |
| 20230820T152500 | 2023 | 08 | 20 | 15:25 | 82.1 | 50.4 | 0 |
| 20230820T153000 | 2023 | 08 | 20 | 15:30 | 82.2 | 49.5 | 0 |
| 20230820T153500 | 2023 | 08 | 20 | 15:35 | 82.8 | 48.2 | 0 |
| 20230820T154000 | 2023 | 08 | 20 | 15:40 | 82.7 | 46.2 | 0 |
| 20230820T154500 | 2023 | 08 | 20 | 15:45 | 83.4 | 46.7 | 0 |
| 20230820T155000 | 2023 | 08 | 20 | 15:50 | 83.5 | 45.9 | 0 |
| 20230820T155500 | 2023 | 08 | 20 | 15:55 | 83.8 | 45.2 | 0 |
| 20230820T160000 | 2023 | 08 | 20 | 16:00 | 84.1 | 44.4 | 0 |
| 20230820T160500 | 2023 | 08 | 20 | 16:05 | 83.2 | 47.1 | 0 |
| 20230820T161000 | 2023 | 08 | 20 | 16:10 | 83.2 | 48.2 | 0 |
| 20230820T161500 | 2023 | 08 | 20 | 16:15 | 83.1 | 46.4 | 0 |
| 20230820T162000 | 2023 | 08 | 20 | 16:20 | 83 | 47.9 | 0 |
| 20230820T162500 | 2023 | 08 | 20 | 16:25 | 83.5 | 48 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230820T163000 | 2023 | 08 | 20 | 16:30 | 83.5 | 42.1 | 0 |
| 20230820T163500 | 2023 | 08 | 20 | 16:35 | 83.6 | 44.4 | 0 |
| 20230820T164000 | 2023 | 08 | 20 | 16:40 | 83.3 | 48.9 | 0 |
| 20230820T164500 | 2023 | 08 | 20 | 16:45 | 83.4 | 49.4 | 0 |
| 20230820T165000 | 2023 | 08 | 20 | 16:50 | 84.4 | 48.5 | 0 |
| 20230820T165500 | 2023 | 08 | 20 | 16:55 | 83.1 | 48.5 | 0 |
| 20230820T170000 | 2023 | 08 | 20 | 17:00 | 82.6 | 45.4 | 0 |
| 20230820T170500 | 2023 | 08 | 20 | 17:05 | 82.5 | 46.4 | 0 |
| 20230820T171000 | 2023 | 08 | 20 | 17:10 | 82.8 | 48.8 | 0 |
| 20230820T171500 | 2023 | 08 | 20 | 17:15 | 83.1 | 48.2 | 0 |
| 20230820T172000 | 2023 | 08 | 20 | 17:20 | 83.7 | 47 | 0 |
| 20230820T172500 | 2023 | 08 | 20 | 17:25 | 84 | 44 | 0 |
| 20230820T173000 | 2023 | 08 | 20 | 17:30 | 83.6 | 43.8 | 0 |
| 20230820T173500 | 2023 | 08 | 20 | 17:35 | 83.4 | 43.3 | 0 |
| 20230820T174000 | 2023 | 08 | 20 | 17:40 | 83.7 | 43.4 | 0 |
| 20230820T174500 | 2023 | 08 | 20 | 17:45 | 83.2 | 43.1 | 0 |
| 20230820T175000 | 2023 | 08 | 20 | 17:50 | 83 | 46 | 0 |
| 20230820T175500 | 2023 | 08 | 20 | 17:55 | 83.5 | 48.3 | 0 |
| 20230820T180000 | 2023 | 08 | 20 | 18:00 | 83.4 | 47.5 | 0 |
| 20230820T180500 | 2023 | 08 | 20 | 18:05 | 83.4 | 47.8 | 0 |
| 20230820T181000 | 2023 | 08 | 20 | 18:10 | 83.8 | 47.5 | 0 |
| 20230820T181500 | 2023 | 08 | 20 | 18:15 | 83.2 | 48 | 0 |
| 20230820T182000 | 2023 | 08 | 20 | 18:20 | 82.8 | 49.2 | 0 |
| 20230820T182500 | 2023 | 08 | 20 | 18:25 | 82.7 | 50.2 | 0 |
| 20230820T183000 | 2023 | 08 | 20 | 18:30 | 82.9 | 48.4 | 0 |
| 20230820T183500 | 2023 | 08 | 20 | 18:35 | 82.3 | 48.4 | 0 |
| 20230820T184000 | 2023 | 08 | 20 | 18:40 | 81.9 | 53 | 0 |
| 20230820T184500 | 2023 | 08 | 20 | 18:45 | 81.4 | 54.3 | 0 |
| 20230820T185000 | 2023 | 08 | 20 | 18:50 | 81.3 | 54.1 | 0 |
| 20230820T185500 | 2023 | 08 | 20 | 18:55 | 81.1 | 55.3 | 0 |
| 20230820T190000 | 2023 | 08 | 20 | 19:00 | 80.8 | 57.5 | 0 |
| 20230820T190500 | 2023 | 08 | 20 | 19:05 | 79.6 | 64.1 | 0 |
| 20230820T191000 | 2023 | 08 | 20 | 19:10 | 79.5 | 67.2 | 0 |
| 20230820T191500 | 2023 | 08 | 20 | 19:15 | 79.6 | 66.4 | 0 |
| 20230820T192000 | 2023 | 08 | 20 | 19:20 | 79.6 | 63.5 | 0 |
| 20230820T192500 | 2023 | 08 | 20 | 19:25 | 78.9 | 63.1 | 0 |
| 20230820T193000 | 2023 | 08 | 20 | 19:30 | 77.7 | 67.7 | 0 |
| 20230820T193500 | 2023 | 08 | 20 | 19:35 | 76.7 | 71 | 0 |
| 20230820T194000 | 2023 | 08 | 20 | 19:40 | 76.4 | 67.6 | 0 |
| 20230820T194500 | 2023 | 08 | 20 | 19:45 | 75.4 | 69.5 | 0 |
| 20230820T195000 | 2023 | 08 | 20 | 19:50 | 74.6 | 72.5 | 0 |
| 20230820T195500 | 2023 | 08 | 20 | 19:55 | 74 | 73.2 | 0 |
| 20230820T200000 | 2023 | 08 | 20 | 20:00 | 73.7 | 75.3 | 0 |
| 20230820T200500 | 2023 | 08 | 20 | 20:05 | 73.1 | 76.1 | 0 |
| 20230820T201000 | 2023 | 08 | 20 | 20:10 | 73 | 76.1 | 0 |
| 20230820T201500 | 2023 | 08 | 20 | 20:15 | 72.6 | 78.3 | 0 |
| 20230820T202000 | 2023 | 08 | 20 | 20:20 | 72.4 | 77.7 | 0 |
| 20230820T202500 | 2023 | 08 | 20 | 20:25 | 72 | 82.2 | 0 |
| 20230820T203000 | 2023 | 08 | 20 | 20:30 | 71.5 | 86.4 | 0 |
| 20230820T203500 | 2023 | 08 | 20 | 20:35 | 71.1 | 87 | 0 |
| 20230820T204000 | 2023 | 08 | 20 | 20:40 | 70.8 | 87.8 | 0 |
| 20230820T204500 | 2023 | 08 | 20 | 20:45 | 70.8 | 86.1 | 0 |
| 20230820T205000 | 2023 | 08 | 20 | 20:50 | 70.7 | 85.3 | 0 |
| 20230820T205500 | 2023 | 08 | 20 | 20:55 | 71.1 | 84 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230820T210000 | 2023 | 08 | 20 | 21:00 | 71.2 | 82.9 | 0 |
| 20230820T210500 | 2023 | 08 | 20 | 21:05 | 70.7 | 86 | 0 |
| 20230820T211000 | 2023 | 08 | 20 | 21:10 | 70.8 | 86.8 | 0 |
| 20230820T211500 | 2023 | 08 | 20 | 21:15 | 71.7 | 85.6 | 0 |
| 20230820T212000 | 2023 | 08 | 20 | 21:20 | 72 | 83.9 | 0 |
| 20230820T212500 | 2023 | 08 | 20 | 21:25 | 71.6 | 84.9 | 0 |
| 20230820T213000 | 2023 | 08 | 20 | 21:30 | 71.9 | 86.2 | 0 |
| 20230820T213500 | 2023 | 08 | 20 | 21:35 | 72.9 | 83 | 0 |
| 20230820T214000 | 2023 | 08 | 20 | 21:40 | 73.5 | 80.4 | 0 |
| 20230820T214500 | 2023 | 08 | 20 | 21:45 | 73.5 | 78.7 | 0 |
| 20230820T215000 | 2023 | 08 | 20 | 21:50 | 74 | 76.3 | 0 |
| 20230820T215500 | 2023 | 08 | 20 | 21:55 | 74.1 | 75.3 | 0 |
| 20230820T220000 | 2023 | 08 | 20 | 22:00 | 72.8 | 78.6 | 0 |
| 20230820T220500 | 2023 | 08 | 20 | 22:05 | 72.5 | 79.8 | 0 |
| 20230820T221000 | 2023 | 08 | 20 | 22:10 | 72.9 | 79.4 | 0 |
| 20230820T221500 | 2023 | 08 | 20 | 22:15 | 73.1 | 78.8 | 0 |
| 20230820T222000 | 2023 | 08 | 20 | 22:20 | 72.9 | 79.2 | 0 |
| 20230820T222500 | 2023 | 08 | 20 | 22:25 | 73.6 | 76.3 | 0 |
| 20230820T223000 | 2023 | 08 | 20 | 22:30 | 74.4 | 73.8 | 0 |
| 20230820T223500 | 2023 | 08 | 20 | 22:35 | 74.4 | 72.8 | 0 |
| 20230820T224000 | 2023 | 08 | 20 | 22:40 | 74.2 | 72.8 | 0 |
| 20230820T224500 | 2023 | 08 | 20 | 22:45 | 73.6 | 74.1 | 0 |
| 20230820T225000 | 2023 | 08 | 20 | 22:50 | 73.7 | 73.7 | 0 |
| 20230820T225500 | 2023 | 08 | 20 | 22:55 | 74.3 | 71.8 | 0 |
| 20230820T230000 | 2023 | 08 | 20 | 23:00 | 74.2 | 71.9 | 0 |
| 20230820T230500 | 2023 | 08 | 20 | 23:05 | 74 | 72.2 | 0 |
| 20230820T231000 | 2023 | 08 | 20 | 23:10 | 73.9 | 72.5 | 0 |
| 20230820T231500 | 2023 | 08 | 20 | 23:15 | 73.7 | 73.3 | 0 |
| 20230820T232000 | 2023 | 08 | 20 | 23:20 | 73.6 | 74.1 | 0 |
| 20230820T232500 | 2023 | 08 | 20 | 23:25 | 72.9 | 76.5 | 0 |
| 20230820T233000 | 2023 | 08 | 20 | 23:30 | 73 | 76.8 | 0 |
| 20230820T233500 | 2023 | 08 | 20 | 23:35 | 73.9 | 74.6 | 0 |
| 20230820T234000 | 2023 | 08 | 20 | 23:40 | 74.1 | 72.9 | 0 |
| 20230820T234500 | 2023 | 08 | 20 | 23:45 | 74.1 | 73.5 | 0 |
| 20230820T235000 | 2023 | 08 | 20 | 23:50 | 74.4 | 72.4 | 0 |
| 20230820T235500 | 2023 | 08 | 20 | 23:55 | 73.7 | 73.4 | 0 |
| 20230821T000000 | 2023 | 08 | 21 | 00:00 | 73.4 | 74.6 | 0 |
| 20230821T000500 | 2023 | 08 | 21 | 00:05 | 73.5 | 75.2 | 0 |
| 20230821T001000 | 2023 | 08 | 21 | 00:10 | 73.9 | 74.1 | 0 |
| 20230821T001500 | 2023 | 08 | 21 | 00:15 | 73.9 | 73.4 | 0 |
| 20230821T002000 | 2023 | 08 | 21 | 00:20 | 73.8 | 74.1 | 0 |
| 20230821T002500 | 2023 | 08 | 21 | 00:25 | 73.4 | 75.3 | 0 |
| 20230821T003000 | 2023 | 08 | 21 | 00:30 | 73.2 | 76.5 | 0 |
| 20230821T003500 | 2023 | 08 | 21 | 00:35 | 73.7 | 75.9 | 0 |
| 20230821T004000 | 2023 | 08 | 21 | 00:40 | 73.5 | 76.2 | 0 |
| 20230821T004500 | 2023 | 08 | 21 | 00:45 | 73.4 | 76.7 | 0 |
| 20230821T005000 | 2023 | 08 | 21 | 00:50 | 73 | 78.4 | 0 |
| 20230821T005500 | 2023 | 08 | 21 | 00:55 | 73.1 | 78.7 | 0 |
| 20230821T010000 | 2023 | 08 | 21 | 01:00 | 73.2 | 78.5 | 0 |
| 20230821T010500 | 2023 | 08 | 21 | 01:05 | 73.3 | 78.4 | 0 |
| 20230821T011000 | 2023 | 08 | 21 | 01:10 | 73.3 | 78.3 | 0 |
| 20230821T011500 | 2023 | 08 | 21 | 01:15 | 73.2 | 78.6 | 0 |
| 20230821T012000 | 2023 | 08 | 21 | 01:20 | 73.4 | 77.9 | 0 |
| 20230821T012500 | 2023 | 08 | 21 | 01:25 | 73.4 | 77.7 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230821T013000 | 2023 | 08 | 21 | 01:30 | 73.1 | 78.1 | 0 |
| 20230821T013500 | 2023 | 08 | 21 | 01:35 | 73.2 | 78 | 0 |
| 20230821T014000 | 2023 | 08 | 21 | 01:40 | 73.2 | 77.8 | 0 |
| 20230821T014500 | 2023 | 08 | 21 | 01:45 | 73.2 | 77.7 | 0 |
| 20230821T015000 | 2023 | 08 | 21 | 01:50 | 73.3 | 77.5 | 0 |
| 20230821T015500 | 2023 | 08 | 21 | 01:55 | 73.4 | 77.3 | 0 |
| 20230821T020000 | 2023 | 08 | 21 | 02:00 | 73.3 | 77.2 | 0 |
| 20230821T020500 | 2023 | 08 | 21 | 02:05 | 73.3 | 77.4 | 0 |
| 20230821T021000 | 2023 | 08 | 21 | 02:10 | 73.2 | 78.1 | 0 |
| 20230821T021500 | 2023 | 08 | 21 | 02:15 | 73.2 | 78.6 | 0 |
| 20230821T022000 | 2023 | 08 | 21 | 02:20 | 73.2 | 78.7 | 0 |
| 20230821T022500 | 2023 | 08 | 21 | 02:25 | 73.1 | 78.7 | 0 |
| 20230821T023000 | 2023 | 08 | 21 | 02:30 | 72.9 | 79.5 | 0 |
| 20230821T023500 | 2023 | 08 | 21 | 02:35 | 72.8 | 79.8 | 0 |
| 20230821T024000 | 2023 | 08 | 21 | 02:40 | 72.8 | 79.8 | 0 |
| 20230821T024500 | 2023 | 08 | 21 | 02:45 | 72.8 | 80.2 | 0 |
| 20230821T025000 | 2023 | 08 | 21 | 02:50 | 72.5 | 81 | 0 |
| 20230821T025500 | 2023 | 08 | 21 | 02:55 | 72.4 | 81.6 | 0 |
| 20230821T030000 | 2023 | 08 | 21 | 03:00 | 72.3 | 82.4 | 0 |
| 20230821T030500 | 2023 | 08 | 21 | 03:05 | 72.3 | 82.8 | 0 |
| 20230821T031000 | 2023 | 08 | 21 | 03:10 | 72.5 | 82 | 0 |
| 20230821T031500 | 2023 | 08 | 21 | 03:15 | 72.5 | 81.8 | 0 |
| 20230821T032000 | 2023 | 08 | 21 | 03:20 | 72.4 | 81.9 | 0 |
| 20230821T032500 | 2023 | 08 | 21 | 03:25 | 72 | 84.2 | 0 |
| 20230821T033000 | 2023 | 08 | 21 | 03:30 | 71.7 | 85.3 | 0 |
| 20230821T033500 | 2023 | 08 | 21 | 03:35 | 71.5 | 85.4 | 0 |
| 20230821T034000 | 2023 | 08 | 21 | 03:40 | 71.4 | 86.5 | 0 |
| 20230821T034500 | 2023 | 08 | 21 | 03:45 | 71.5 | 85.9 | 0 |
| 20230821T035000 | 2023 | 08 | 21 | 03:50 | 71.8 | 84.7 | 0 |
| 20230821T035500 | 2023 | 08 | 21 | 03:55 | 72 | 83.4 | 0 |
| 20230821T040000 | 2023 | 08 | 21 | 04:00 | 72.2 | 82.3 | 0 |
| 20230821T040500 | 2023 | 08 | 21 | 04:05 | 72.1 | 81.8 | 0 |
| 20230821T041000 | 2023 | 08 | 21 | 04:10 | 71.5 | 83.1 | 0 |
| 20230821T041500 | 2023 | 08 | 21 | 04:15 | 71.2 | 84.1 | 0 |
| 20230821T042000 | 2023 | 08 | 21 | 04:20 | 71.5 | 84.9 | 0 |
| 20230821T042500 | 2023 | 08 | 21 | 04:25 | 71.9 | 83.5 | 0 |
| 20230821T043000 | 2023 | 08 | 21 | 04:30 | 71.6 | 84.3 | 0 |
| 20230821T043500 | 2023 | 08 | 21 | 04:35 | 72.1 | 83.7 | 0 |
| 20230821T044000 | 2023 | 08 | 21 | 04:40 | 72.3 | 82.6 | 0 |
| 20230821T044500 | 2023 | 08 | 21 | 04:45 | 72.4 | 82.2 | 0 |
| 20230821T045000 | 2023 | 08 | 21 | 04:50 | 72.5 | 82.1 | 0 |
| 20230821T045500 | 2023 | 08 | 21 | 04:55 | 73 | 81.1 | 0 |
| 20230821T050000 | 2023 | 08 | 21 | 05:00 | 73.2 | 80.1 | 0 |
| 20230821T050500 | 2023 | 08 | 21 | 05:05 | 73.4 | 79.6 | 0 |
| 20230821T051000 | 2023 | 08 | 21 | 05:10 | 73.4 | 79.2 | 0 |
| 20230821T051500 | 2023 | 08 | 21 | 05:15 | 73.3 | 79.4 | 0 |
| 20230821T052000 | 2023 | 08 | 21 | 05:20 | 73.3 | 79.4 | 0 |
| 20230821T052500 | 2023 | 08 | 21 | 05:25 | 73.4 | 79.3 | 0 |
| 20230821T053000 | 2023 | 08 | 21 | 05:30 | 73.3 | 79.4 | 0 |
| 20230821T053500 | 2023 | 08 | 21 | 05:35 | 73.3 | 79.5 | 0 |
| 20230821T054000 | 2023 | 08 | 21 | 05:40 | 73.2 | 79.6 | 0 |
| 20230821T054500 | 2023 | 08 | 21 | 05:45 | 73.1 | 80 | 0 |
| 20230821T055000 | 2023 | 08 | 21 | 05:50 | 73.2 | 79.9 | 0 |
| 20230821T055500 | 2023 | 08 | 21 | 05:55 | 73.1 | 79.9 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230821T060000 | 2023 | 08 | 21 | 06:00 | 73.1 | 80.1 | 0 |
| 20230821T060500 | 2023 | 08 | 21 | 06:05 | 72.9 | 80.5 | 0 |
| 20230821T061000 | 2023 | 08 | 21 | 06:10 | 73 | 80.6 | 0 |
| 20230821T061500 | 2023 | 08 | 21 | 06:15 | 73 | 80.5 | 0 |
| 20230821T062000 | 2023 | 08 | 21 | 06:20 | 72.9 | 80.8 | 0 |
| 20230821T062500 | 2023 | 08 | 21 | 06:25 | 72.9 | 81 | 0 |
| 20230821T063000 | 2023 | 08 | 21 | 06:30 | 72.9 | 81.1 | 0 |
| 20230821T063500 | 2023 | 08 | 21 | 06:35 | 72.9 | 81 | 0 |
| 20230821T064000 | 2023 | 08 | 21 | 06:40 | 72.8 | 81.3 | 0 |
| 20230821T064500 | 2023 | 08 | 21 | 06:45 | 72.7 | 81.6 | 0 |
| 20230821T065000 | 2023 | 08 | 21 | 06:50 | 72.6 | 82 | 0 |
| 20230821T065500 | 2023 | 08 | 21 | 06:55 | 72.6 | 82.4 | 0 |
| 20230821T070000 | 2023 | 08 | 21 | 07:00 | 72.6 | 82.4 | 0 |
| 20230821T070500 | 2023 | 08 | 21 | 07:05 | 72.6 | 82.7 | 0 |
| 20230821T071000 | 2023 | 08 | 21 | 07:10 | 72.5 | 82.9 | 0 |
| 20230821T071500 | 2023 | 08 | 21 | 07:15 | 72.5 | 83 | 0 |
| 20230821T072000 | 2023 | 08 | 21 | 07:20 | 72.5 | 83.3 | 0 |
| 20230821T072500 | 2023 | 08 | 21 | 07:25 | 72.5 | 83.3 | 0 |
| 20230821T073000 | 2023 | 08 | 21 | 07:30 | 72.4 | 83.7 | 0 |
| 20230821T073500 | 2023 | 08 | 21 | 07:35 | 72.5 | 83.9 | 0 |
| 20230821T074000 | 2023 | 08 | 21 | 07:40 | 72.4 | 83.9 | 0 |
| 20230821T074500 | 2023 | 08 | 21 | 07:45 | 72.3 | 83.9 | 0 |
| 20230821T075000 | 2023 | 08 | 21 | 07:50 | 72.2 | 84.3 | 0 |
| 20230821T075500 | 2023 | 08 | 21 | 07:55 | 72.3 | 84.5 | 0 |
| 20230821T080000 | 2023 | 08 | 21 | 08:00 | 72.3 | 84.6 | 0 |
| 20230821T080500 | 2023 | 08 | 21 | 08:05 | 72.3 | 84.6 | 0 |
| 20230821T081000 | 2023 | 08 | 21 | 08:10 | 72.6 | 84.6 | 0 |
| 20230821T081500 | 2023 | 08 | 21 | 08:15 | 73.2 | 83.6 | 0 |
| 20230821T082000 | 2023 | 08 | 21 | 08:20 | 73.6 | 82 | 0 |
| 20230821T082500 | 2023 | 08 | 21 | 08:25 | 73.9 | 81.2 | 0 |
| 20230821T083000 | 2023 | 08 | 21 | 08:30 | 73.8 | 80.5 | 0 |
| 20230821T083500 | 2023 | 08 | 21 | 08:35 | 74 | 80.8 | 0 |
| 20230821T084000 | 2023 | 08 | 21 | 08:40 | 74 | 80.2 | 0 |
| 20230821T084500 | 2023 | 08 | 21 | 08:45 | 74.6 | 79.8 | 0 |
| 20230821T085000 | 2023 | 08 | 21 | 08:50 | 74.3 | 79.6 | 0 |
| 20230821T085500 | 2023 | 08 | 21 | 08:55 | 73.6 | 80.5 | 0 |
| 20230821T090000 | 2023 | 08 | 21 | 09:00 | 73.6 | 81.3 | 0 |
| 20230821T090500 | 2023 | 08 | 21 | 09:05 | 73.6 | 81.9 | 0 |
| 20230821T091000 | 2023 | 08 | 21 | 09:10 | 73.7 | 81.8 | 0 |
| 20230821T091500 | 2023 | 08 | 21 | 09:15 | 73.6 | 81 | 0 |
| 20230821T092000 | 2023 | 08 | 21 | 09:20 | 73.4 | 81.9 | 0 |
| 20230821T092500 | 2023 | 08 | 21 | 09:25 | 72.9 | 82 | 0 |
| 20230821T093000 | 2023 | 08 | 21 | 09:30 | 72.6 | 82.6 | 0 |
| 20230821T093500 | 2023 | 08 | 21 | 09:35 | 72.6 | 83.1 | 0 |
| 20230821T094000 | 2023 | 08 | 21 | 09:40 | 72.6 | 83.4 | 0 |
| 20230821T094500 | 2023 | 08 | 21 | 09:45 | 72.5 | 83.3 | 0 |
| 20230821T095000 | 2023 | 08 | 21 | 09:50 | 72.4 | 83.8 | 0 |
| 20230821T095500 | 2023 | 08 | 21 | 09:55 | 72.3 | 84.1 | 0 |
| 20230821T100000 | 2023 | 08 | 21 | 10:00 | 72.1 | 84.9 | 0 |
| 20230821T100500 | 2023 | 08 | 21 | 10:05 | 72.3 | 84.9 | 0 |
| 20230821T101000 | 2023 | 08 | 21 | 10:10 | 72.5 | 84.5 | 0 |
| 20230821T101500 | 2023 | 08 | 21 | 10:15 | 72.9 | 83.8 | 0 |
| 20230821T102000 | 2023 | 08 | 21 | 10:20 | 72.7 | 83.3 | 0 |
| 20230821T102500 | 2023 | 08 | 21 | 10:25 | 72.4 | 84.4 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230821T103000 | 2023 | 08 | 21 | 10:30 | 72.5 | 84.7 | 0 |
| 20230821T103500 | 2023 | 08 | 21 | 10:35 | 72.5 | 84.3 | 0 |
| 20230821T104000 | 2023 | 08 | 21 | 10:40 | 72.5 | 84.2 | 0 |
| 20230821T104500 | 2023 | 08 | 21 | 10:45 | 72.6 | 83.7 | 0 |
| 20230821T105000 | 2023 | 08 | 21 | 10:50 | 72 | 84.5 | 0 |
| 20230821T105500 | 2023 | 08 | 21 | 10:55 | 72 | 85.3 | 0 |
| 20230821T110000 | 2023 | 08 | 21 | 11:00 | 72.2 | 85.4 | 0 |
| 20230821T110500 | 2023 | 08 | 21 | 11:05 | 72.5 | 85.1 | 0 |
| 20230821T111000 | 2023 | 08 | 21 | 11:10 | 72.5 | 84.9 | 0 |
| 20230821T111500 | 2023 | 08 | 21 | 11:15 | 72.1 | 85 | 0 |
| 20230821T112000 | 2023 | 08 | 21 | 11:20 | 71.1 | 87 | 0 |
| 20230821T112500 | 2023 | 08 | 21 | 11:25 | 71 | 87.8 | 0 |
| 20230821T113000 | 2023 | 08 | 21 | 11:30 | 71 | 87.3 | 0 |
| 20230821T113500 | 2023 | 08 | 21 | 11:35 | 70.9 | 86.3 | 0 |
| 20230821T114000 | 2023 | 08 | 21 | 11:40 | 70.7 | 85.6 | 0 |
| 20230821T114500 | 2023 | 08 | 21 | 11:45 | 71.3 | 84.5 | 0 |
| 20230821T115000 | 2023 | 08 | 21 | 11:50 | 71.4 | 81.8 | 0 |
| 20230821T115500 | 2023 | 08 | 21 | 11:55 | 72.1 | 80.1 | 0 |
| 20230821T120000 | 2023 | 08 | 21 | 12:00 | 73 | 78.6 | 0 |
| 20230821T120500 | 2023 | 08 | 21 | 12:05 | 72.4 | 77.5 | 0 |
| 20230821T121000 | 2023 | 08 | 21 | 12:10 | 72.4 | 78.1 | 0 |
| 20230821T121500 | 2023 | 08 | 21 | 12:15 | 72.4 | 77 | 0 |
| 20230821T122000 | 2023 | 08 | 21 | 12:20 | 72.4 | 77.4 | 0 |
| 20230821T122500 | 2023 | 08 | 21 | 12:25 | 72.9 | 75.2 | 0 |
| 20230821T123000 | 2023 | 08 | 21 | 12:30 | 73.3 | 75 | 0 |
| 20230821T123500 | 2023 | 08 | 21 | 12:35 | 72.9 | 74 | 0 |
| 20230821T124000 | 2023 | 08 | 21 | 12:40 | 73 | 73.8 | 0 |
| 20230821T124500 | 2023 | 08 | 21 | 12:45 | 73.2 | 74.1 | 0 |
| 20230821T125000 | 2023 | 08 | 21 | 12:50 | 73.2 | 73.4 | 0 |
| 20230821T125500 | 2023 | 08 | 21 | 12:55 | 72.9 | 73.8 | 0 |
| 20230821T130000 | 2023 | 08 | 21 | 13:00 | 72.6 | 73.3 | 0 |
| 20230821T130500 | 2023 | 08 | 21 | 13:05 | 72.7 | 73.3 | 0 |
| 20230821T131000 | 2023 | 08 | 21 | 13:10 | 72.3 | 72.8 | 0 |
| 20230821T131500 | 2023 | 08 | 21 | 13:15 | 72.2 | 72.9 | 0 |
| 20230821T132000 | 2023 | 08 | 21 | 13:20 | 72 | 72.9 | 0 |
| 20230821T132500 | 2023 | 08 | 21 | 13:25 | 71.7 | 73.2 | 0 |
| 20230821T133000 | 2023 | 08 | 21 | 13:30 | 71.6 | 72.9 | 0 |
| 20230821T133500 | 2023 | 08 | 21 | 13:35 | 71.7 | 73.2 | 0 |
| 20230821T134000 | 2023 | 08 | 21 | 13:40 | 72.4 | 72.4 | 0 |
| 20230821T134500 | 2023 | 08 | 21 | 13:45 | 72.9 | 70.5 | 0 |
| 20230821T135000 | 2023 | 08 | 21 | 13:50 | 72.7 | 69.9 | 0 |
| 20230821T135500 | 2023 | 08 | 21 | 13:55 | 72.2 | 69.8 | 0 |
| 20230821T140000 | 2023 | 08 | 21 | 14:00 | 73.2 | 70.3 | 0 |
| 20230821T140500 | 2023 | 08 | 21 | 14:05 | 73.4 | 68.3 | 0 |
| 20230821T141000 | 2023 | 08 | 21 | 14:10 | 73.7 | 68.2 | 0 |
| 20230821T141500 | 2023 | 08 | 21 | 14:15 | 74.4 | 67.3 | 0 |
| 20230821T142000 | 2023 | 08 | 21 | 14:20 | 73.5 | 67.3 | 0 |
| 20230821T142500 | 2023 | 08 | 21 | 14:25 | 73.7 | 68.4 | 0 |
| 20230821T143000 | 2023 | 08 | 21 | 14:30 | 73.4 | 68.8 | 0 |
| 20230821T143500 | 2023 | 08 | 21 | 14:35 | 73 | 68.6 | 0 |
| 20230821T144000 | 2023 | 08 | 21 | 14:40 | 73.7 | 68.3 | 0 |
| 20230821T144500 | 2023 | 08 | 21 | 14:45 | 73.6 | 68.5 | 0 |
| 20230821T145000 | 2023 | 08 | 21 | 14:50 | 74.2 | 66.6 | 0 |
| 20230821T145500 | 2023 | 08 | 21 | 14:55 | 73.8 | 66.9 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230821T150000 | 2023 | 08 | 21 | 15:00 | 73.6 | 67.4 | 0 |
| 20230821T150500 | 2023 | 08 | 21 | 15:05 | 73.4 | 68 | 0 |
| 20230821T151000 | 2023 | 08 | 21 | 15:10 | 73.7 | 68.3 | 0 |
| 20230821T151500 | 2023 | 08 | 21 | 15:15 | 73.8 | 68 | 0 |
| 20230821T152000 | 2023 | 08 | 21 | 15:20 | 73.6 | 66.9 | 0 |
| 20230821T152500 | 2023 | 08 | 21 | 15:25 | 73.2 | 67.7 | 0 |
| 20230821T153000 | 2023 | 08 | 21 | 15:30 | 73.2 | 67.8 | 0 |
| 20230821T153500 | 2023 | 08 | 21 | 15:35 | 73.1 | 67.9 | 0 |
| 20230821T154000 | 2023 | 08 | 21 | 15:40 | 73 | 67.4 | 0 |
| 20230821T154500 | 2023 | 08 | 21 | 15:45 | 73.1 | 67.4 | 0 |
| 20230821T155000 | 2023 | 08 | 21 | 15:50 | 73.1 | 67.4 | 0 |
| 20230821T155500 | 2023 | 08 | 21 | 15:55 | 73.7 | 66.5 | 0 |
| 20230821T160000 | 2023 | 08 | 21 | 16:00 | 73.2 | 66 | 0 |
| 20230821T160500 | 2023 | 08 | 21 | 16:05 | 72.8 | 66.7 | 0 |
| 20230821T161000 | 2023 | 08 | 21 | 16:10 | 72.6 | 67 | 0 |
| 20230821T161500 | 2023 | 08 | 21 | 16:15 | 72 | 67.8 | 0 |
| 20230821T162000 | 2023 | 08 | 21 | 16:20 | 72.3 | 68.5 | 0 |
| 20230821T162500 | 2023 | 08 | 21 | 16:25 | 72.5 | 67.8 | 0 |
| 20230821T163000 | 2023 | 08 | 21 | 16:30 | 72 | 68.8 | 0 |
| 20230821T163500 | 2023 | 08 | 21 | 16:35 | 71.5 | 68.5 | 0 |
| 20230821T164000 | 2023 | 08 | 21 | 16:40 | 70.8 | 69.3 | 0 |
| 20230821T164500 | 2023 | 08 | 21 | 16:45 | 70.8 | 68.8 | 0 |
| 20230821T165000 | 2023 | 08 | 21 | 16:50 | 70.7 | 69.9 | 0 |
| 20230821T165500 | 2023 | 08 | 21 | 16:55 | 70.7 | 68.6 | 0 |
| 20230821T170000 | 2023 | 08 | 21 | 17:00 | 70.1 | 68.3 | 0 |
| 20230821T170500 | 2023 | 08 | 21 | 17:05 | 70.4 | 69.2 | 0 |
| 20230821T171000 | 2023 | 08 | 21 | 17:10 | 70.3 | 67.3 | 0 |
| 20230821T171500 | 2023 | 08 | 21 | 17:15 | 69.8 | 67 | 0 |
| 20230821T172000 | 2023 | 08 | 21 | 17:20 | 69.3 | 68.6 | 0 |
| 20230821T172500 | 2023 | 08 | 21 | 17:25 | 69.2 | 67.4 | 0 |
| 20230821T173000 | 2023 | 08 | 21 | 17:30 | 68.7 | 66.2 | 0 |
| 20230821T173500 | 2023 | 08 | 21 | 17:35 | 68.6 | 65.6 | 0 |
| 20230821T174000 | 2023 | 08 | 21 | 17:40 | 68.9 | 65.1 | 0 |
| 20230821T174500 | 2023 | 08 | 21 | 17:45 | 68.5 | 65.4 | 0 |
| 20230821T175000 | 2023 | 08 | 21 | 17:50 | 68.3 | 65.9 | 0 |
| 20230821T175500 | 2023 | 08 | 21 | 17:55 | 68.2 | 66.4 | 0 |
| 20230821T180000 | 2023 | 08 | 21 | 18:00 | 68.2 | 65 | 0 |
| 20230821T180500 | 2023 | 08 | 21 | 18:05 | 68.3 | 64.4 | 0 |
| 20230821T181000 | 2023 | 08 | 21 | 18:10 | 68.1 | 63.8 | 0 |
| 20230821T181500 | 2023 | 08 | 21 | 18:15 | 68.1 | 62.2 | 0 |
| 20230821T182000 | 2023 | 08 | 21 | 18:20 | 67.9 | 64.4 | 0 |
| 20230821T182500 | 2023 | 08 | 21 | 18:25 | 67.9 | 60.6 | 0 |
| 20230821T183000 | 2023 | 08 | 21 | 18:30 | 67.8 | 59.7 | 0 |
| 20230821T183500 | 2023 | 08 | 21 | 18:35 | 67.8 | 59.1 | 0 |
| 20230821T184000 | 2023 | 08 | 21 | 18:40 | 67.9 | 59.1 | 0 |
| 20230821T184500 | 2023 | 08 | 21 | 18:45 | 67.6 | 59.9 | 0 |
| 20230821T185000 | 2023 | 08 | 21 | 18:50 | 67.3 | 60.7 | 0 |
| 20230821T185500 | 2023 | 08 | 21 | 18:55 | 67 | 61.1 | 0 |
| 20230821T190000 | 2023 | 08 | 21 | 19:00 | 66.8 | 62 | 0 |
| 20230821T190500 | 2023 | 08 | 21 | 19:05 | 66.7 | 62.2 | 0 |
| 20230821T191000 | 2023 | 08 | 21 | 19:10 | 66.6 | 62.8 | 0 |
| 20230821T191500 | 2023 | 08 | 21 | 19:15 | 66.5 | 63.1 | 0 |
| 20230821T192000 | 2023 | 08 | 21 | 19:20 | 66.4 | 63.1 | 0 |
| 20230821T192500 | 2023 | 08 | 21 | 19:25 | 66.2 | 63.6 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230821T193000 | 2023 | 08 | 21 | 19:30 | 65.9 | 65 | 0 |
| 20230821T193500 | 2023 | 08 | 21 | 19:35 | 65.5 | 66.9 | 0 |
| 20230821T194000 | 2023 | 08 | 21 | 19:40 | 65.2 | 68.9 | 0 |
| 20230821T194500 | 2023 | 08 | 21 | 19:45 | 65.1 | 69.8 | 0 |
| 20230821T195000 | 2023 | 08 | 21 | 19:50 | 64.9 | 70.8 | 0 |
| 20230821T195500 | 2023 | 08 | 21 | 19:55 | 64.7 | 72.1 | 0 |
| 20230821T200000 | 2023 | 08 | 21 | 20:00 | 64.3 | 73.3 | 0 |
| 20230821T200500 | 2023 | 08 | 21 | 20:05 | 64.1 | 73.6 | 0 |
| 20230821T201000 | 2023 | 08 | 21 | 20:10 | 63.7 | 74.9 | 0 |
| 20230821T201500 | 2023 | 08 | 21 | 20:15 | 63 | 77.7 | 0 |
| 20230821T202000 | 2023 | 08 | 21 | 20:20 | 62.2 | 79.1 | 0 |
| 20230821T202500 | 2023 | 08 | 21 | 20:25 | 61.7 | 80.4 | 0 |
| 20230821T203000 | 2023 | 08 | 21 | 20:30 | 61.7 | 80.2 | 0 |
| 20230821T203500 | 2023 | 08 | 21 | 20:35 | 61.3 | 81 | 0 |
| 20230821T204000 | 2023 | 08 | 21 | 20:40 | 60.9 | 82.4 | 0 |
| 20230821T204500 | 2023 | 08 | 21 | 20:45 | 60.7 | 82.6 | 0 |
| 20230821T205000 | 2023 | 08 | 21 | 20:50 | 60.6 | 82.8 | 0 |
| 20230821T205500 | 2023 | 08 | 21 | 20:55 | 60.2 | 84.5 | 0 |
| 20230821T210000 | 2023 | 08 | 21 | 21:00 | 59.9 | 86 | 0 |
| 20230821T210500 | 2023 | 08 | 21 | 21:05 | 59.8 | 87.2 | 0 |
| 20230821T211000 | 2023 | 08 | 21 | 21:10 | 59.7 | 87.9 | 0 |
| 20230821T211500 | 2023 | 08 | 21 | 21:15 | 59.2 | 88.5 | 0 |
| 20230821T212000 | 2023 | 08 | 21 | 21:20 | 59.1 | 89.3 | 0 |
| 20230821T212500 | 2023 | 08 | 21 | 21:25 | 59.3 | 89.7 | 0 |
| 20230821T213000 | 2023 | 08 | 21 | 21:30 | 59.2 | 89.6 | 0 |
| 20230821T213500 | 2023 | 08 | 21 | 21:35 | 59.5 | 89.2 | 0 |
| 20230821T214000 | 2023 | 08 | 21 | 21:40 | 59.3 | 90.5 | 0 |
| 20230821T214500 | 2023 | 08 | 21 | 21:45 | 59.6 | 92.1 | 0 |
| 20230821T215000 | 2023 | 08 | 21 | 21:50 | 59.9 | 92.6 | 0 |
| 20230821T215500 | 2023 | 08 | 21 | 21:55 | 59.9 | 91.9 | 0 |
| 20230821T220000 | 2023 | 08 | 21 | 22:00 | 60 | 91.7 | 0 |
| 20230821T220500 | 2023 | 08 | 21 | 22:05 | 60.1 | 91.8 | 0 |
| 20230821T221000 | 2023 | 08 | 21 | 22:10 | 60.3 | 90.9 | 0 |
| 20230821T221500 | 2023 | 08 | 21 | 22:15 | 60.9 | 88.5 | 0 |
| 20230821T222000 | 2023 | 08 | 21 | 22:20 | 60.6 | 87.2 | 0 |
| 20230821T222500 | 2023 | 08 | 21 | 22:25 | 60.2 | 88.4 | 0 |
| 20230821T223000 | 2023 | 08 | 21 | 22:30 | 60.5 | 88.9 | 0 |
| 20230821T223500 | 2023 | 08 | 21 | 22:35 | 60.7 | 87.7 | 0 |
| 20230821T224000 | 2023 | 08 | 21 | 22:40 | 60.7 | 87.7 | 0 |
| 20230821T224500 | 2023 | 08 | 21 | 22:45 | 61 | 87.6 | 0 |
| 20230821T225000 | 2023 | 08 | 21 | 22:50 | 61.2 | 86 | 0 |
| 20230821T225500 | 2023 | 08 | 21 | 22:55 | 61.6 | 84.1 | 0 |
| 20230821T230000 | 2023 | 08 | 21 | 23:00 | 61.5 | 83.7 | 0 |
| 20230821T230500 | 2023 | 08 | 21 | 23:05 | 61.4 | 84.6 | 0 |
| 20230821T231000 | 2023 | 08 | 21 | 23:10 | 61.6 | 84.8 | 0 |
| 20230821T231500 | 2023 | 08 | 21 | 23:15 | 61.9 | 82.7 | 0 |
| 20230821T232000 | 2023 | 08 | 21 | 23:20 | 61.7 | 83.4 | 0 |
| 20230821T232500 | 2023 | 08 | 21 | 23:25 | 61.9 | 82.9 | 0 |
| 20230821T233000 | 2023 | 08 | 21 | 23:30 | 62.1 | 80.9 | 0 |
| 20230821T233500 | 2023 | 08 | 21 | 23:35 | 62.1 | 81.2 | 0 |
| 20230821T234000 | 2023 | 08 | 21 | 23:40 | 61.7 | 83.5 | 0 |
| 20230821T234500 | 2023 | 08 | 21 | 23:45 | 62 | 82.8 | 0 |
| 20230821T235000 | 2023 | 08 | 21 | 23:50 | 62 | 82.6 | 0 |
| 20230821T235500 | 2023 | 08 | 21 | 23:55 | 62.1 | 82.1 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230822T000000 | 2023 | 08 | 22 | 00:00 | 62.4 | 79.9 | 0 |
| 20230822T000500 | 2023 | 08 | 22 | 00:05 | 62.4 | 79 | 0 |
| 20230822T001000 | 2023 | 08 | 22 | 00:10 | 62.4 | 78.7 | 0 |
| 20230822T001500 | 2023 | 08 | 22 | 00:15 | 62.5 | 78.6 | 0 |
| 20230822T002000 | 2023 | 08 | 22 | 00:20 | 62.4 | 78.8 | 0 |
| 20230822T002500 | 2023 | 08 | 22 | 00:25 | 62.4 | 78.8 | 0 |
| 20230822T003000 | 2023 | 08 | 22 | 00:30 | 62.4 | 78.7 | 0 |
| 20230822T003500 | 2023 | 08 | 22 | 00:35 | 62.5 | 78.5 | 0 |
| 20230822T004000 | 2023 | 08 | 22 | 00:40 | 62.5 | 78.4 | 0 |
| 20230822T004500 | 2023 | 08 | 22 | 00:45 | 62.4 | 78.7 | 0 |
| 20230822T005000 | 2023 | 08 | 22 | 00:50 | 62.3 | 79.4 | 0 |
| 20230822T005500 | 2023 | 08 | 22 | 00:55 | 62.1 | 79.9 | 0 |
| 20230822T010000 | 2023 | 08 | 22 | 01:00 | 61.7 | 81.1 | 0 |
| 20230822T010500 | 2023 | 08 | 22 | 01:05 | 61.3 | 82.6 | 0 |
| 20230822T011000 | 2023 | 08 | 22 | 01:10 | 61.2 | 83.5 | 0 |
| 20230822T011500 | 2023 | 08 | 22 | 01:15 | 61 | 84.5 | 0 |
| 20230822T012000 | 2023 | 08 | 22 | 01:20 | 61.1 | 84.3 | 0 |
| 20230822T012500 | 2023 | 08 | 22 | 01:25 | 60.8 | 85.1 | 0 |
| 20230822T013000 | 2023 | 08 | 22 | 01:30 | 60.5 | 86.1 | 0 |
| 20230822T013500 | 2023 | 08 | 22 | 01:35 | 60.6 | 85.9 | 0 |
| 20230822T014000 | 2023 | 08 | 22 | 01:40 | 60.4 | 86.3 | 0 |
| 20230822T014500 | 2023 | 08 | 22 | 01:45 | 60.2 | 86.8 | 0 |
| 20230822T015000 | 2023 | 08 | 22 | 01:50 | 60.3 | 86.3 | 0 |
| 20230822T015500 | 2023 | 08 | 22 | 01:55 | 59.7 | 87.2 | 0 |
| 20230822T020000 | 2023 | 08 | 22 | 02:00 | 59.3 | 88.4 | 0 |
| 20230822T020500 | 2023 | 08 | 22 | 02:05 | 59 | 88.7 | 0 |
| 20230822T021000 | 2023 | 08 | 22 | 02:10 | 58.6 | 89.7 | 0 |
| 20230822T021500 | 2023 | 08 | 22 | 02:15 | 58.2 | 90.4 | 0 |
| 20230822T022000 | 2023 | 08 | 22 | 02:20 | 58.2 | 91.4 | 0 |
| 20230822T022500 | 2023 | 08 | 22 | 02:25 | 57.9 | 91.6 | 0 |
| 20230822T023000 | 2023 | 08 | 22 | 02:30 | 57.7 | 92.4 | 0 |
| 20230822T023500 | 2023 | 08 | 22 | 02:35 | 57 | 92.8 | 0 |
| 20230822T024000 | 2023 | 08 | 22 | 02:40 | 56.6 | 93.6 | 0 |
| 20230822T024500 | 2023 | 08 | 22 | 02:45 | 56.5 | 93.7 | 0 |
| 20230822T025000 | 2023 | 08 | 22 | 02:50 | 56.7 | 94.3 | 0 |
| 20230822T025500 | 2023 | 08 | 22 | 02:55 | 57.1 | 94.5 | 0 |
| 20230822T030000 | 2023 | 08 | 22 | 03:00 | 57 | 94.4 | 0 |
| 20230822T030500 | 2023 | 08 | 22 | 03:05 | 56.8 | 94.3 | 0 |
| 20230822T031000 | 2023 | 08 | 22 | 03:10 | 56.5 | 94.3 | 0 |
| 20230822T031500 | 2023 | 08 | 22 | 03:15 | 56.6 | 94.5 | 0 |
| 20230822T032000 | 2023 | 08 | 22 | 03:20 | 56.5 | 94.5 | 0 |
| 20230822T032500 | 2023 | 08 | 22 | 03:25 | 56.1 | 94.8 | 0 |
| 20230822T033000 | 2023 | 08 | 22 | 03:30 | 56.1 | 95.2 | 0 |
| 20230822T033500 | 2023 | 08 | 22 | 03:35 | 56.1 | 95.4 | 0 |
| 20230822T034000 | 2023 | 08 | 22 | 03:40 | 56.1 | 95.6 | 0 |
| 20230822T034500 | 2023 | 08 | 22 | 03:45 | 55.9 | 95.6 | 0 |
| 20230822T035000 | 2023 | 08 | 22 | 03:50 | 55.6 | 95.4 | 0 |
| 20230822T035500 | 2023 | 08 | 22 | 03:55 | 55.3 | 95.4 | 0 |
| 20230822T040000 | 2023 | 08 | 22 | 04:00 | 55.2 | 95.5 | 0 |
| 20230822T040500 | 2023 | 08 | 22 | 04:05 | 55.5 | 96 | 0 |
| 20230822T041000 | 2023 | 08 | 22 | 04:10 | 55.5 | 96.1 | 0 |
| 20230822T041500 | 2023 | 08 | 22 | 04:15 | 55.4 | 96.3 | 0 |
| 20230822T042000 | 2023 | 08 | 22 | 04:20 | 55.2 | 96.4 | 0 |
| 20230822T042500 | 2023 | 08 | 22 | 04:25 | 54.9 | 96.3 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230822T043000 | 2023 | 08 | 22 | 04:30 | 55 | 96.4 | 0 |
| 20230822T043500 | 2023 | 08 | 22 | 04:35 | 54.9 | 96.4 | 0 |
| 20230822T044000 | 2023 | 08 | 22 | 04:40 | 54.9 | 96.6 | 0 |
| 20230822T044500 | 2023 | 08 | 22 | 04:45 | 54.9 | 96.7 | 0 |
| 20230822T045000 | 2023 | 08 | 22 | 04:50 | 54.3 | 96.5 | 0 |
| 20230822T045500 | 2023 | 08 | 22 | 04:55 | 53.9 | 96.4 | 0 |
| 20230822T050000 | 2023 | 08 | 22 | 05:00 | 54.3 | 96.8 | 0 |
| 20230822T050500 | 2023 | 08 | 22 | 05:05 | 54.3 | 96.6 | 0 |
| 20230822T051000 | 2023 | 08 | 22 | 05:10 | 54.1 | 96.4 | 0 |
| 20230822T051500 | 2023 | 08 | 22 | 05:15 | 54.2 | 96.6 | 0 |
| 20230822T052000 | 2023 | 08 | 22 | 05:20 | 54.4 | 96.6 | 0 |
| 20230822T052500 | 2023 | 08 | 22 | 05:25 | 54 | 96.6 | 0 |
| 20230822T053000 | 2023 | 08 | 22 | 05:30 | 53.9 | 96.6 | 0 |
| 20230822T053500 | 2023 | 08 | 22 | 05:35 | 53.8 | 96.8 | 0 |
| 20230822T054000 | 2023 | 08 | 22 | 05:40 | 54.2 | 96.8 | 0 |
| 20230822T054500 | 2023 | 08 | 22 | 05:45 | 54 | 96.7 | 0 |
| 20230822T055000 | 2023 | 08 | 22 | 05:50 | 54 | 96.6 | 0 |
| 20230822T055500 | 2023 | 08 | 22 | 05:55 | 54 | 96.6 | 0 |
| 20230822T060000 | 2023 | 08 | 22 | 06:00 | 53.6 | 96.4 | 0 |
| 20230822T060500 | 2023 | 08 | 22 | 06:05 | 53.1 | 96.3 | 0 |
| 20230822T061000 | 2023 | 08 | 22 | 06:10 | 53.4 | 96.7 | 0 |
| 20230822T061500 | 2023 | 08 | 22 | 06:15 | 53.3 | 96.7 | 0 |
| 20230822T062000 | 2023 | 08 | 22 | 06:20 | 53.4 | 96.8 | 0 |
| 20230822T062500 | 2023 | 08 | 22 | 06:25 | 53.1 | 96.5 | 0 |
| 20230822T063000 | 2023 | 08 | 22 | 06:30 | 53.4 | 96.9 | 0 |
| 20230822T063500 | 2023 | 08 | 22 | 06:35 | 53.4 | 96.9 | 0 |
| 20230822T064000 | 2023 | 08 | 22 | 06:40 | 53.3 | 96.7 | 0 |
| 20230822T064500 | 2023 | 08 | 22 | 06:45 | 53.4 | 96.8 | 0 |
| 20230822T065000 | 2023 | 08 | 22 | 06:50 | 53.7 | 96.9 | 0 |
| 20230822T065500 | 2023 | 08 | 22 | 06:55 | 54 | 97.2 | 0 |
| 20230822T070000 | 2023 | 08 | 22 | 07:00 | 54.4 | 96.8 | 0 |
| 20230822T070500 | 2023 | 08 | 22 | 07:05 | 54.9 | 96.4 | 0 |
| 20230822T071000 | 2023 | 08 | 22 | 07:10 | 55.2 | 96.2 | 0 |
| 20230822T071500 | 2023 | 08 | 22 | 07:15 | 55.3 | 95.8 | 0 |
| 20230822T072000 | 2023 | 08 | 22 | 07:20 | 55.7 | 95.3 | 0 |
| 20230822T072500 | 2023 | 08 | 22 | 07:25 | 55.6 | 94.4 | 0 |
| 20230822T073000 | 2023 | 08 | 22 | 07:30 | 56.1 | 94.9 | 0 |
| 20230822T073500 | 2023 | 08 | 22 | 07:35 | 56.4 | 93.3 | 0 |
| 20230822T074000 | 2023 | 08 | 22 | 07:40 | 56.9 | 92.2 | 0 |
| 20230822T074500 | 2023 | 08 | 22 | 07:45 | 57.7 | 91.4 | 0 |
| 20230822T075000 | 2023 | 08 | 22 | 07:50 | 58.7 | 89.7 | 0 |
| 20230822T075500 | 2023 | 08 | 22 | 07:55 | 59.2 | 87.4 | 0 |
| 20230822T080000 | 2023 | 08 | 22 | 08:00 | 59.5 | 86.6 | 0 |
| 20230822T080500 | 2023 | 08 | 22 | 08:05 | 60.1 | 84.5 | 0 |
| 20230822T081000 | 2023 | 08 | 22 | 08:10 | 60.9 | 82.8 | 0 |
| 20230822T081500 | 2023 | 08 | 22 | 08:15 | 61.4 | 81.6 | 0 |
| 20230822T082000 | 2023 | 08 | 22 | 08:20 | 62 | 79.1 | 0 |
| 20230822T082500 | 2023 | 08 | 22 | 08:25 | 62.5 | 77.3 | 0 |
| 20230822T083000 | 2023 | 08 | 22 | 08:30 | 63 | 78.3 | 0 |
| 20230822T083500 | 2023 | 08 | 22 | 08:35 | 63.2 | 75.4 | 0 |
| 20230822T084000 | 2023 | 08 | 22 | 08:40 | 63.5 | 75.4 | 0 |
| 20230822T084500 | 2023 | 08 | 22 | 08:45 | 63.7 | 73.8 | 0 |
| 20230822T085000 | 2023 | 08 | 22 | 08:50 | 64.1 | 73.2 | 0 |
| 20230822T085500 | 2023 | 08 | 22 | 08:55 | 64.5 | 70.4 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230822T090000 | 2023 | 08 | 22 | 09:00 | 64.5 | 68.8 | 0 |
| 20230822T090500 | 2023 | 08 | 22 | 09:05 | 64.1 | 69.1 | 0 |
| 20230822T091000 | 2023 | 08 | 22 | 09:10 | 64.1 | 70.9 | 0 |
| 20230822T091500 | 2023 | 08 | 22 | 09:15 | 65 | 70.3 | 0 |
| 20230822T092000 | 2023 | 08 | 22 | 09:20 | 65.4 | 67.6 | 0 |
| 20230822T092500 | 2023 | 08 | 22 | 09:25 | 65.5 | 68.1 | 0 |
| 20230822T093000 | 2023 | 08 | 22 | 09:30 | 65.4 | 67 | 0 |
| 20230822T093500 | 2023 | 08 | 22 | 09:35 | 65 | 67.2 | 0 |
| 20230822T094000 | 2023 | 08 | 22 | 09:40 | 64.7 | 68 | 0 |
| 20230822T094500 | 2023 | 08 | 22 | 09:45 | 64.6 | 67.9 | 0 |
| 20230822T095000 | 2023 | 08 | 22 | 09:50 | 64.7 | 69.3 | 0 |
| 20230822T095500 | 2023 | 08 | 22 | 09:55 | 65.7 | 68.1 | 0 |
| 20230822T100000 | 2023 | 08 | 22 | 10:00 | 66.1 | 68.6 | 0 |
| 20230822T100500 | 2023 | 08 | 22 | 10:05 | 67.1 | 67.9 | 0 |
| 20230822T101000 | 2023 | 08 | 22 | 10:10 | 67.2 | 67.3 | 0 |
| 20230822T101500 | 2023 | 08 | 22 | 10:15 | 67.8 | 67.2 | 0 |
| 20230822T102000 | 2023 | 08 | 22 | 10:20 | 67.8 | 65 | 0 |
| 20230822T102500 | 2023 | 08 | 22 | 10:25 | 68.1 | 64.7 | 0 |
| 20230822T103000 | 2023 | 08 | 22 | 10:30 | 68.8 | 62.4 | 0 |
| 20230822T103500 | 2023 | 08 | 22 | 10:35 | 68.6 | 61.5 | 0 |
| 20230822T104000 | 2023 | 08 | 22 | 10:40 | 68.3 | 61.3 | 0 |
| 20230822T104500 | 2023 | 08 | 22 | 10:45 | 68.5 | 61.3 | 0 |
| 20230822T105000 | 2023 | 08 | 22 | 10:50 | 68.8 | 60.2 | 0 |
| 20230822T105500 | 2023 | 08 | 22 | 10:55 | 69.4 | 61.3 | 0 |
| 20230822T110000 | 2023 | 08 | 22 | 11:00 | 69.6 | 60.2 | 0 |
| 20230822T110500 | 2023 | 08 | 22 | 11:05 | 69.7 | 58.1 | 0 |
| 20230822T111000 | 2023 | 08 | 22 | 11:10 | 69.7 | 56.9 | 0 |
| 20230822T111500 | 2023 | 08 | 22 | 11:15 | 70.3 | 58.7 | 0 |
| 20230822T112000 | 2023 | 08 | 22 | 11:20 | 70 | 56.1 | 0 |
| 20230822T112500 | 2023 | 08 | 22 | 11:25 | 70.3 | 54.3 | 0 |
| 20230822T113000 | 2023 | 08 | 22 | 11:30 | 70.3 | 57 | 0 |
| 20230822T113500 | 2023 | 08 | 22 | 11:35 | 70.4 | 56.5 | 0 |
| 20230822T114000 | 2023 | 08 | 22 | 11:40 | 70.7 | 53.7 | 0 |
| 20230822T114500 | 2023 | 08 | 22 | 11:45 | 71.1 | 52.2 | 0 |
| 20230822T115000 | 2023 | 08 | 22 | 11:50 | 71.5 | 52.5 | 0 |
| 20230822T115500 | 2023 | 08 | 22 | 11:55 | 72 | 51.7 | 0 |
| 20230822T120000 | 2023 | 08 | 22 | 12:00 | 71.5 | 49.6 | 0 |
| 20230822T120500 | 2023 | 08 | 22 | 12:05 | 72.1 | 51 | 0 |
| 20230822T121000 | 2023 | 08 | 22 | 12:10 | 72 | 49 | 0 |
| 20230822T121500 | 2023 | 08 | 22 | 12:15 | 72.2 | 48.3 | 0 |
| 20230822T122000 | 2023 | 08 | 22 | 12:20 | 72.2 | 49.4 | 0 |
| 20230822T122500 | 2023 | 08 | 22 | 12:25 | 72.4 | 50.6 | 0 |
| 20230822T123000 | 2023 | 08 | 22 | 12:30 | 72.7 | 49.6 | 0 |
| 20230822T123500 | 2023 | 08 | 22 | 12:35 | 72.7 | 50.1 | 0 |
| 20230822T124000 | 2023 | 08 | 22 | 12:40 | 72.7 | 48.4 | 0 |
| 20230822T124500 | 2023 | 08 | 22 | 12:45 | 72.5 | 49.1 | 0 |
| 20230822T125000 | 2023 | 08 | 22 | 12:50 | 73 | 50 | 0 |
| 20230822T125500 | 2023 | 08 | 22 | 12:55 | 73.3 | 49.8 | 0 |
| 20230822T130000 | 2023 | 08 | 22 | 13:00 | 72.8 | 48.1 | 0 |
| 20230822T130500 | 2023 | 08 | 22 | 13:05 | 73.1 | 49.4 | 0 |
| 20230822T131000 | 2023 | 08 | 22 | 13:10 | 73.7 | 48.3 | 0 |
| 20230822T131500 | 2023 | 08 | 22 | 13:15 | 73.5 | 49 | 0 |
| 20230822T132000 | 2023 | 08 | 22 | 13:20 | 73 | 48.1 | 0 |
| 20230822T132500 | 2023 | 08 | 22 | 13:25 | 73.1 | 49.1 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230822T133000 | 2023 | 08 | 22 | 13:30 | 74 | 49.2 | 0 |
| 20230822T133500 | 2023 | 08 | 22 | 13:35 | 74.2 | 48 | 0 |
| 20230822T134000 | 2023 | 08 | 22 | 13:40 | 74.1 | 48.7 | 0 |
| 20230822T134500 | 2023 | 08 | 22 | 13:45 | 73.7 | 49.9 | 0 |
| 20230822T135000 | 2023 | 08 | 22 | 13:50 | 74.1 | 47.5 | 0 |
| 20230822T135500 | 2023 | 08 | 22 | 13:55 | 74.4 | 48.5 | 0 |
| 20230822T140000 | 2023 | 08 | 22 | 14:00 | 74.7 | 47.7 | 0 |
| 20230822T140500 | 2023 | 08 | 22 | 14:05 | 74.5 | 46.9 | 0 |
| 20230822T141000 | 2023 | 08 | 22 | 14:10 | 75.4 | 50 | 0 |
| 20230822T141500 | 2023 | 08 | 22 | 14:15 | 74.7 | 45.4 | 0 |
| 20230822T142000 | 2023 | 08 | 22 | 14:20 | 74 | 45.9 | 0 |
| 20230822T142500 | 2023 | 08 | 22 | 14:25 | 74.9 | 48.3 | 0 |
| 20230822T143000 | 2023 | 08 | 22 | 14:30 | 73.9 | 48.1 | 0 |
| 20230822T143500 | 2023 | 08 | 22 | 14:35 | 74.6 | 47.8 | 0 |
| 20230822T144000 | 2023 | 08 | 22 | 14:40 | 75.3 | 46.8 | 0 |
| 20230822T144500 | 2023 | 08 | 22 | 14:45 | 75.3 | 46.7 | 0 |
| 20230822T145000 | 2023 | 08 | 22 | 14:50 | 74.7 | 49.5 | 0 |
| 20230822T145500 | 2023 | 08 | 22 | 14:55 | 75.2 | 49.9 | 0 |
| 20230822T150000 | 2023 | 08 | 22 | 15:00 | 75.2 | 49 | 0 |
| 20230822T150500 | 2023 | 08 | 22 | 15:05 | 75.1 | 50.3 | 0 |
| 20230822T151000 | 2023 | 08 | 22 | 15:10 | 74.7 | 49.5 | 0 |
| 20230822T151500 | 2023 | 08 | 22 | 15:15 | 75.2 | 49.9 | 0 |
| 20230822T152000 | 2023 | 08 | 22 | 15:20 | 75.1 | 50.8 | 0 |
| 20230822T152500 | 2023 | 08 | 22 | 15:25 | 74.6 | 49.4 | 0 |
| 20230822T153000 | 2023 | 08 | 22 | 15:30 | 75.1 | 49.2 | 0 |
| 20230822T153500 | 2023 | 08 | 22 | 15:35 | 74.9 | 49 | 0 |
| 20230822T154000 | 2023 | 08 | 22 | 15:40 | 75.3 | 47 | 0 |
| 20230822T154500 | 2023 | 08 | 22 | 15:45 | 75.2 | 46.1 | 0 |
| 20230822T155000 | 2023 | 08 | 22 | 15:50 | 75.1 | 47.6 | 0 |
| 20230822T155500 | 2023 | 08 | 22 | 15:55 | 74.6 | 47.5 | 0 |
| 20230822T160000 | 2023 | 08 | 22 | 16:00 | 75.1 | 44.6 | 0 |
| 20230822T160500 | 2023 | 08 | 22 | 16:05 | 75 | 46.3 | 0 |
| 20230822T161000 | 2023 | 08 | 22 | 16:10 | 74.7 | 48.3 | 0 |
| 20230822T161500 | 2023 | 08 | 22 | 16:15 | 74.8 | 48.3 | 0 |
| 20230822T162000 | 2023 | 08 | 22 | 16:20 | 74.8 | 47.7 | 0 |
| 20230822T162500 | 2023 | 08 | 22 | 16:25 | 74.4 | 47.6 | 0 |
| 20230822T163000 | 2023 | 08 | 22 | 16:30 | 75.1 | 46 | 0 |
| 20230822T163500 | 2023 | 08 | 22 | 16:35 | 74.9 | 46.5 | 0 |
| 20230822T164000 | 2023 | 08 | 22 | 16:40 | 74.5 | 47.7 | 0 |
| 20230822T164500 | 2023 | 08 | 22 | 16:45 | 74.8 | 46.6 | 0 |
| 20230822T165000 | 2023 | 08 | 22 | 16:50 | 74 | 47.2 | 0 |
| 20230822T165500 | 2023 | 08 | 22 | 16:55 | 74.5 | 47.5 | 0 |
| 20230822T170000 | 2023 | 08 | 22 | 17:00 | 74.6 | 45.6 | 0 |
| 20230822T170500 | 2023 | 08 | 22 | 17:05 | 74.2 | 45.8 | 0 |
| 20230822T171000 | 2023 | 08 | 22 | 17:10 | 74.2 | 46.9 | 0 |
| 20230822T171500 | 2023 | 08 | 22 | 17:15 | 73.9 | 46.8 | 0 |
| 20230822T172000 | 2023 | 08 | 22 | 17:20 | 73.8 | 48.7 | 0 |
| 20230822T172500 | 2023 | 08 | 22 | 17:25 | 73.9 | 47.9 | 0 |
| 20230822T173000 | 2023 | 08 | 22 | 17:30 | 73.9 | 48.4 | 0 |
| 20230822T173500 | 2023 | 08 | 22 | 17:35 | 73.9 | 48.8 | 0 |
| 20230822T174000 | 2023 | 08 | 22 | 17:40 | 73.7 | 49.2 | 0 |
| 20230822T174500 | 2023 | 08 | 22 | 17:45 | 73.4 | 47.5 | 0 |
| 20230822T175000 | 2023 | 08 | 22 | 17:50 | 73.4 | 47.4 | 0 |
| 20230822T175500 | 2023 | 08 | 22 | 17:55 | 73.6 | 48.7 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230822T180000 | 2023 | 08 | 22 | 18:00 | 73.4 | 48 | 0 |
| 20230822T180500 | 2023 | 08 | 22 | 18:05 | 73 | 48.1 | 0 |
| 20230822T181000 | 2023 | 08 | 22 | 18:10 | 72.6 | 48.5 | 0 |
| 20230822T181500 | 2023 | 08 | 22 | 18:15 | 72.6 | 47.1 | 0 |
| 20230822T182000 | 2023 | 08 | 22 | 18:20 | 72.5 | 47.5 | 0 |
| 20230822T182500 | 2023 | 08 | 22 | 18:25 | 72.4 | 48.1 | 0 |
| 20230822T183000 | 2023 | 08 | 22 | 18:30 | 72.2 | 49.7 | 0 |
| 20230822T183500 | 2023 | 08 | 22 | 18:35 | 71.8 | 50.9 | 0 |
| 20230822T184000 | 2023 | 08 | 22 | 18:40 | 71.8 | 50.6 | 0 |
| 20230822T184500 | 2023 | 08 | 22 | 18:45 | 71.9 | 50.5 | 0 |
| 20230822T185000 | 2023 | 08 | 22 | 18:50 | 71.5 | 50.5 | 0 |
| 20230822T185500 | 2023 | 08 | 22 | 18:55 | 71.2 | 52.4 | 0 |
| 20230822T190000 | 2023 | 08 | 22 | 19:00 | 71.1 | 52.7 | 0 |
| 20230822T190500 | 2023 | 08 | 22 | 19:05 | 71 | 52.5 | 0 |
| 20230822T191000 | 2023 | 08 | 22 | 19:10 | 70.8 | 52.6 | 0 |
| 20230822T191500 | 2023 | 08 | 22 | 19:15 | 70.5 | 53.6 | 0 |
| 20230822T192000 | 2023 | 08 | 22 | 19:20 | 70.3 | 54.6 | 0 |
| 20230822T192500 | 2023 | 08 | 22 | 19:25 | 69.9 | 56 | 0 |
| 20230822T193000 | 2023 | 08 | 22 | 19:30 | 69.2 | 58.1 | 0 |
| 20230822T193500 | 2023 | 08 | 22 | 19:35 | 67.9 | 60.2 | 0 |
| 20230822T194000 | 2023 | 08 | 22 | 19:40 | 67 | 61.7 | 0 |
| 20230822T194500 | 2023 | 08 | 22 | 19:45 | 66.3 | 64.3 | 0 |
| 20230822T195000 | 2023 | 08 | 22 | 19:50 | 66.6 | 66.7 | 0 |
| 20230822T195500 | 2023 | 08 | 22 | 19:55 | 65.5 | 68.9 | 0 |
| 20230822T200000 | 2023 | 08 | 22 | 20:00 | 64.9 | 72 | 0 |
| 20230822T200500 | 2023 | 08 | 22 | 20:05 | 64.1 | 74.6 | 0 |
| 20230822T201000 | 2023 | 08 | 22 | 20:10 | 64.3 | 74.2 | 0 |
| 20230822T201500 | 2023 | 08 | 22 | 20:15 | 63.3 | 74.2 | 0 |
| 20230822T202000 | 2023 | 08 | 22 | 20:20 | 63.6 | 74.5 | 0 |
| 20230822T202500 | 2023 | 08 | 22 | 20:25 | 62.8 | 77.4 | 0 |
| 20230822T203000 | 2023 | 08 | 22 | 20:30 | 63.1 | 78.9 | 0 |
| 20230822T203500 | 2023 | 08 | 22 | 20:35 | 62.9 | 77.8 | 0 |
| 20230822T204000 | 2023 | 08 | 22 | 20:40 | 62.1 | 80 | 0 |
| 20230822T204500 | 2023 | 08 | 22 | 20:45 | 61.7 | 82.5 | 0 |
| 20230822T205000 | 2023 | 08 | 22 | 20:50 | 61.8 | 82.9 | 0 |
| 20230822T205500 | 2023 | 08 | 22 | 20:55 | 62.4 | 81.6 | 0 |
| 20230822T210000 | 2023 | 08 | 22 | 21:00 | 62.2 | 79.9 | 0 |
| 20230822T210500 | 2023 | 08 | 22 | 21:05 | 61.5 | 81.9 | 0 |
| 20230822T211000 | 2023 | 08 | 22 | 21:10 | 61.3 | 84.5 | 0 |
| 20230822T211500 | 2023 | 08 | 22 | 21:15 | 61.9 | 82.5 | 0 |
| 20230822T212000 | 2023 | 08 | 22 | 21:20 | 60.7 | 84.3 | 0 |
| 20230822T212500 | 2023 | 08 | 22 | 21:25 | 60.1 | 86.5 | 0 |
| 20230822T213000 | 2023 | 08 | 22 | 21:30 | 60.2 | 86.1 | 0 |
| 20230822T213500 | 2023 | 08 | 22 | 21:35 | 60 | 84.8 | 0 |
| 20230822T214000 | 2023 | 08 | 22 | 21:40 | 59.9 | 87.1 | 0 |
| 20230822T214500 | 2023 | 08 | 22 | 21:45 | 60.2 | 86.9 | 0 |
| 20230822T215000 | 2023 | 08 | 22 | 21:50 | 59.9 | 87.8 | 0 |
| 20230822T215500 | 2023 | 08 | 22 | 21:55 | 59.5 | 88.3 | 0 |
| 20230822T220000 | 2023 | 08 | 22 | 22:00 | 59.1 | 89.4 | 0 |
| 20230822T220500 | 2023 | 08 | 22 | 22:05 | 60 | 88.8 | 0 |
| 20230822T221000 | 2023 | 08 | 22 | 22:10 | 59 | 87.7 | 0 |
| 20230822T221500 | 2023 | 08 | 22 | 22:15 | 59.1 | 88 | 0 |
| 20230822T222000 | 2023 | 08 | 22 | 22:20 | 58.7 | 88.5 | 0 |
| 20230822T222500 | 2023 | 08 | 22 | 22:25 | 58.3 | 88.5 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230822T223000 | 2023 | 08 | 22 | 22:30 | 58.4 | 90 | 0 |
| 20230822T223500 | 2023 | 08 | 22 | 22:35 | 58 | 90.3 | 0 |
| 20230822T224000 | 2023 | 08 | 22 | 22:40 | 58.2 | 91.1 | 0 |
| 20230822T224500 | 2023 | 08 | 22 | 22:45 | 58.3 | 92.1 | 0 |
| 20230822T225000 | 2023 | 08 | 22 | 22:50 | 58.2 | 92.7 | 0 |
| 20230822T225500 | 2023 | 08 | 22 | 22:55 | 57.9 | 92.7 | 0 |
| 20230822T230000 | 2023 | 08 | 22 | 23:00 | 57.8 | 92.6 | 0 |
| 20230822T230500 | 2023 | 08 | 22 | 23:05 | 57.9 | 92.9 | 0 |
| 20230822T231000 | 2023 | 08 | 22 | 23:10 | 58 | 93.4 | 0 |
| 20230822T231500 | 2023 | 08 | 22 | 23:15 | 57.8 | 93.1 | 0 |
| 20230822T232000 | 2023 | 08 | 22 | 23:20 | 57.8 | 93.3 | 0 |
| 20230822T232500 | 2023 | 08 | 22 | 23:25 | 58 | 93.1 | 0 |
| 20230822T233000 | 2023 | 08 | 22 | 23:30 | 58 | 93 | 0 |
| 20230822T233500 | 2023 | 08 | 22 | 23:35 | 58.1 | 93.1 | 0 |
| 20230822T234000 | 2023 | 08 | 22 | 23:40 | 58.1 | 93.6 | 0 |
| 20230822T234500 | 2023 | 08 | 22 | 23:45 | 58.2 | 93.4 | 0 |
| 20230822T235000 | 2023 | 08 | 22 | 23:50 | 57.9 | 93.2 | 0 |
| 20230822T235500 | 2023 | 08 | 22 | 23:55 | 57.7 | 93.4 | 0 |
| 20230823T000000 | 2023 | 08 | 23 | 00:00 | 58 | 94 | 0 |
| 20230823T000500 | 2023 | 08 | 23 | 00:05 | 57.9 | 94 | 0 |
| 20230823T001000 | 2023 | 08 | 23 | 00:10 | 57.3 | 93.9 | 0 |
| 20230823T001500 | 2023 | 08 | 23 | 00:15 | 57 | 93.1 | 0 |
| 20230823T002000 | 2023 | 08 | 23 | 00:20 | 57 | 92.5 | 0 |
| 20230823T002500 | 2023 | 08 | 23 | 00:25 | 56.9 | 92.7 | 0 |
| 20230823T003000 | 2023 | 08 | 23 | 00:30 | 56.9 | 93.4 | 0 |
| 20230823T003500 | 2023 | 08 | 23 | 00:35 | 57.1 | 93.8 | 0 |
| 20230823T004000 | 2023 | 08 | 23 | 00:40 | 56.8 | 93.3 | 0 |
| 20230823T004500 | 2023 | 08 | 23 | 00:45 | 56.5 | 93.6 | 0 |
| 20230823T005000 | 2023 | 08 | 23 | 00:50 | 56.7 | 94.2 | 0 |
| 20230823T005500 | 2023 | 08 | 23 | 00:55 | 57 | 94.9 | 0 |
| 20230823T010000 | 2023 | 08 | 23 | 01:00 | 56.9 | 94.8 | 0 |
| 20230823T010500 | 2023 | 08 | 23 | 01:05 | 56.9 | 95 | 0 |
| 20230823T011000 | 2023 | 08 | 23 | 01:10 | 57 | 95.2 | 0 |
| 20230823T011500 | 2023 | 08 | 23 | 01:15 | 57.3 | 95.6 | 0 |
| 20230823T012000 | 2023 | 08 | 23 | 01:20 | 57.5 | 95.4 | 0 |
| 20230823T012500 | 2023 | 08 | 23 | 01:25 | 57.7 | 95.2 | 0 |
| 20230823T013000 | 2023 | 08 | 23 | 01:30 | 57.5 | 94.5 | 0 |
| 20230823T013500 | 2023 | 08 | 23 | 01:35 | 57.6 | 94.6 | 0 |
| 20230823T014000 | 2023 | 08 | 23 | 01:40 | 57.7 | 94.5 | 0 |
| 20230823T014500 | 2023 | 08 | 23 | 01:45 | 57.6 | 94.2 | 0 |
| 20230823T015000 | 2023 | 08 | 23 | 01:50 | 57.9 | 94.2 | 0 |
| 20230823T015500 | 2023 | 08 | 23 | 01:55 | 57.9 | 93.6 | 0 |
| 20230823T020000 | 2023 | 08 | 23 | 02:00 | 57.9 | 93.4 | 0 |
| 20230823T020500 | 2023 | 08 | 23 | 02:05 | 58.1 | 93.2 | 0 |
| 20230823T021000 | 2023 | 08 | 23 | 02:10 | 57.9 | 93 | 0 |
| 20230823T021500 | 2023 | 08 | 23 | 02:15 | 58 | 93.4 | 0 |
| 20230823T022000 | 2023 | 08 | 23 | 02:20 | 58.3 | 93.7 | 0 |
| 20230823T022500 | 2023 | 08 | 23 | 02:25 | 58.5 | 94 | 0 |
| 20230823T023000 | 2023 | 08 | 23 | 02:30 | 58.5 | 93.3 | 0 |
| 20230823T023500 | 2023 | 08 | 23 | 02:35 | 58.5 | 93.2 | 0 |
| 20230823T024000 | 2023 | 08 | 23 | 02:40 | 58.4 | 93.5 | 0 |
| 20230823T024500 | 2023 | 08 | 23 | 02:45 | 58.4 | 93.5 | 0 |
| 20230823T025000 | 2023 | 08 | 23 | 02:50 | 58.4 | 94 | 0 |
| 20230823T025500 | 2023 | 08 | 23 | 02:55 | 58.5 | 94 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230823T030000 | 2023 | 08 | 23 | 03:00 | 58.6 | 94 | 0 |
| 20230823T030500 | 2023 | 08 | 23 | 03:05 | 58.8 | 94.7 | 0 |
| 20230823T031000 | 2023 | 08 | 23 | 03:10 | 58.8 | 94.8 | 0 |
| 20230823T031500 | 2023 | 08 | 23 | 03:15 | 58.8 | 94.9 | 0 |
| 20230823T032000 | 2023 | 08 | 23 | 03:20 | 58.9 | 95.2 | 0 |
| 20230823T032500 | 2023 | 08 | 23 | 03:25 | 59 | 95.2 | 0 |
| 20230823T033000 | 2023 | 08 | 23 | 03:30 | 58.9 | 95.2 | 0 |
| 20230823T033500 | 2023 | 08 | 23 | 03:35 | 58.7 | 94.8 | 0 |
| 20230823T034000 | 2023 | 08 | 23 | 03:40 | 58.6 | 94.8 | 0 |
| 20230823T034500 | 2023 | 08 | 23 | 03:45 | 58.8 | 94.7 | 0 |
| 20230823T035000 | 2023 | 08 | 23 | 03:50 | 58.7 | 94.8 | 0 |
| 20230823T035500 | 2023 | 08 | 23 | 03:55 | 58.9 | 94.9 | 0 |
| 20230823T040000 | 2023 | 08 | 23 | 04:00 | 59 | 95.1 | 0 |
| 20230823T040500 | 2023 | 08 | 23 | 04:05 | 59 | 95.2 | 0 |
| 20230823T041000 | 2023 | 08 | 23 | 04:10 | 58.9 | 94.8 | 0 |
| 20230823T041500 | 2023 | 08 | 23 | 04:15 | 58.9 | 94.7 | 0 |
| 20230823T042000 | 2023 | 08 | 23 | 04:20 | 58.9 | 94.9 | 0 |
| 20230823T042500 | 2023 | 08 | 23 | 04:25 | 59 | 95 | 0 |
| 20230823T043000 | 2023 | 08 | 23 | 04:30 | 59 | 95.1 | 0 |
| 20230823T043500 | 2023 | 08 | 23 | 04:35 | 59.2 | 95 | 0 |
| 20230823T044000 | 2023 | 08 | 23 | 04:40 | 59.3 | 94.7 | 0 |
| 20230823T044500 | 2023 | 08 | 23 | 04:45 | 59.3 | 94.9 | 0 |
| 20230823T045000 | 2023 | 08 | 23 | 04:50 | 59.4 | 95.1 | 0 |
| 20230823T045500 | 2023 | 08 | 23 | 04:55 | 59.3 | 95.1 | 0 |
| 20230823T050000 | 2023 | 08 | 23 | 05:00 | 59.3 | 95.2 | 0 |
| 20230823T050500 | 2023 | 08 | 23 | 05:05 | 59.3 | 95.5 | 0 |
| 20230823T051000 | 2023 | 08 | 23 | 05:10 | 59.5 | 95.3 | 0 |
| 20230823T051500 | 2023 | 08 | 23 | 05:15 | 59.5 | 95 | 0 |
| 20230823T052000 | 2023 | 08 | 23 | 05:20 | 59.7 | 94.8 | 0 |
| 20230823T052500 | 2023 | 08 | 23 | 05:25 | 59.8 | 94.7 | 0 |
| 20230823T053000 | 2023 | 08 | 23 | 05:30 | 60 | 94.3 | 0 |
| 20230823T053500 | 2023 | 08 | 23 | 05:35 | 60 | 93.6 | 0 |
| 20230823T054000 | 2023 | 08 | 23 | 05:40 | 60 | 93 | 0 |
| 20230823T054500 | 2023 | 08 | 23 | 05:45 | 60 | 92.5 | 0 |
| 20230823T055000 | 2023 | 08 | 23 | 05:50 | 59.9 | 92.1 | 0 |
| 20230823T055500 | 2023 | 08 | 23 | 05:55 | 59.9 | 92.6 | 0 |
| 20230823T060000 | 2023 | 08 | 23 | 06:00 | 59.9 | 92.6 | 0 |
| 20230823T060500 | 2023 | 08 | 23 | 06:05 | 59.8 | 92.5 | 0 |
| 20230823T061000 | 2023 | 08 | 23 | 06:10 | 59.8 | 92.7 | 0 |
| 20230823T061500 | 2023 | 08 | 23 | 06:15 | 59.9 | 92.5 | 0 |
| 20230823T062000 | 2023 | 08 | 23 | 06:20 | 59.9 | 92.4 | 0 |
| 20230823T062500 | 2023 | 08 | 23 | 06:25 | 60 | 92.4 | 0 |
| 20230823T063000 | 2023 | 08 | 23 | 06:30 | 60 | 91.8 | 0 |
| 20230823T063500 | 2023 | 08 | 23 | 06:35 | 60 | 91.5 | 0 |
| 20230823T064000 | 2023 | 08 | 23 | 06:40 | 60.1 | 91.9 | 0 |
| 20230823T064500 | 2023 | 08 | 23 | 06:45 | 60.2 | 92.3 | 0 |
| 20230823T065000 | 2023 | 08 | 23 | 06:50 | 60.3 | 92 | 0 |
| 20230823T065500 | 2023 | 08 | 23 | 06:55 | 60.4 | 92 | 0 |
| 20230823T070000 | 2023 | 08 | 23 | 07:00 | 60.4 | 91.9 | 0 |
| 20230823T070500 | 2023 | 08 | 23 | 07:05 | 60.3 | 92.1 | 0 |
| 20230823T071000 | 2023 | 08 | 23 | 07:10 | 60.4 | 91.9 | 0 |
| 20230823T071500 | 2023 | 08 | 23 | 07:15 | 60.5 | 91.9 | 0 |
| 20230823T072000 | 2023 | 08 | 23 | 07:20 | 60.5 | 91.3 | 0 |
| 20230823T072500 | 2023 | 08 | 23 | 07:25 | 60.6 | 90.5 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230823T073000 | 2023 | 08 | 23 | 07:30 | 60.8 | 88.8 | 0 |
| 20230823T073500 | 2023 | 08 | 23 | 07:35 | 61.1 | 87.6 | 0 |
| 20230823T074000 | 2023 | 08 | 23 | 07:40 | 61.3 | 86.9 | 0 |
| 20230823T074500 | 2023 | 08 | 23 | 07:45 | 61.5 | 84.8 | 0 |
| 20230823T075000 | 2023 | 08 | 23 | 07:50 | 61.5 | 85.1 | 0 |
| 20230823T075500 | 2023 | 08 | 23 | 07:55 | 61.8 | 85.2 | 0 |
| 20230823T080000 | 2023 | 08 | 23 | 08:00 | 61.9 | 84.2 | 0 |
| 20230823T080500 | 2023 | 08 | 23 | 08:05 | 61.9 | 83.2 | 0 |
| 20230823T081000 | 2023 | 08 | 23 | 08:10 | 61.9 | 83.5 | 0 |
| 20230823T081500 | 2023 | 08 | 23 | 08:15 | 62 | 83.9 | 0 |
| 20230823T082000 | 2023 | 08 | 23 | 08:20 | 62.2 | 84.6 | 0 |
| 20230823T082500 | 2023 | 08 | 23 | 08:25 | 62.2 | 84.1 | 0 |
| 20230823T083000 | 2023 | 08 | 23 | 08:30 | 62.3 | 84.3 | 0 |
| 20230823T083500 | 2023 | 08 | 23 | 08:35 | 62.7 | 84.4 | 0 |
| 20230823T084000 | 2023 | 08 | 23 | 08:40 | 62.8 | 83.6 | 0 |
| 20230823T084500 | 2023 | 08 | 23 | 08:45 | 63.1 | 83.1 | 0 |
| 20230823T085000 | 2023 | 08 | 23 | 08:50 | 63.5 | 83.3 | 0 |
| 20230823T085500 | 2023 | 08 | 23 | 08:55 | 63.5 | 82.5 | 0 |
| 20230823T090000 | 2023 | 08 | 23 | 09:00 | 63.8 | 82 | 0 |
| 20230823T090500 | 2023 | 08 | 23 | 09:05 | 63.9 | 81.4 | 0 |
| 20230823T091000 | 2023 | 08 | 23 | 09:10 | 64.5 | 81.4 | 0 |
| 20230823T091500 | 2023 | 08 | 23 | 09:15 | 64.9 | 80.3 | 0 |
| 20230823T092000 | 2023 | 08 | 23 | 09:20 | 65.1 | 79.1 | 0 |
| 20230823T092500 | 2023 | 08 | 23 | 09:25 | 65.6 | 79 | 0 |
| 20230823T093000 | 2023 | 08 | 23 | 09:30 | 65.8 | 78.3 | 0 |
| 20230823T093500 | 2023 | 08 | 23 | 09:35 | 66.2 | 77.4 | 0 |
| 20230823T094000 | 2023 | 08 | 23 | 09:40 | 66.7 | 75.7 | 0 |
| 20230823T094500 | 2023 | 08 | 23 | 09:45 | 67 | 74.7 | 0 |
| 20230823T095000 | 2023 | 08 | 23 | 09:50 | 67.4 | 74 | 0 |
| 20230823T095500 | 2023 | 08 | 23 | 09:55 | 67.8 | 72 | 0 |
| 20230823T100000 | 2023 | 08 | 23 | 10:00 | 68.2 | 70.6 | 0 |
| 20230823T100500 | 2023 | 08 | 23 | 10:05 | 68.4 | 69.4 | 0 |
| 20230823T101000 | 2023 | 08 | 23 | 10:10 | 68.5 | 68.3 | 0 |
| 20230823T101500 | 2023 | 08 | 23 | 10:15 | 68.9 | 68 | 0 |
| 20230823T102000 | 2023 | 08 | 23 | 10:20 | 69 | 67.2 | 0 |
| 20230823T102500 | 2023 | 08 | 23 | 10:25 | 69.1 | 67.9 | 0 |
| 20230823T103000 | 2023 | 08 | 23 | 10:30 | 69.4 | 67.4 | 0 |
| 20230823T103500 | 2023 | 08 | 23 | 10:35 | 69.3 | 67.4 | 0 |
| 20230823T104000 | 2023 | 08 | 23 | 10:40 | 69.5 | 67.7 | 0 |
| 20230823T104500 | 2023 | 08 | 23 | 10:45 | 70.1 | 66.7 | 0 |
| 20230823T105000 | 2023 | 08 | 23 | 10:50 | 70 | 66.3 | 0 |
| 20230823T105500 | 2023 | 08 | 23 | 10:55 | 71.2 | 65.5 | 0 |
| 20230823T110000 | 2023 | 08 | 23 | 11:00 | 71.2 | 62.5 | 0 |
| 20230823T110500 | 2023 | 08 | 23 | 11:05 | 71.2 | 62.3 | 0 |
| 20230823T111000 | 2023 | 08 | 23 | 11:10 | 72.4 | 63.5 | 0 |
| 20230823T111500 | 2023 | 08 | 23 | 11:15 | 72.2 | 61.1 | 0 |
| 20230823T112000 | 2023 | 08 | 23 | 11:20 | 72.6 | 62.6 | 0 |
| 20230823T112500 | 2023 | 08 | 23 | 11:25 | 73.8 | 59 | 0 |
| 20230823T113000 | 2023 | 08 | 23 | 11:30 | 73.2 | 58.3 | 0 |
| 20230823T113500 | 2023 | 08 | 23 | 11:35 | 73.3 | 57.7 | 0 |
| 20230823T114000 | 2023 | 08 | 23 | 11:40 | 73.3 | 57.6 | 0 |
| 20230823T114500 | 2023 | 08 | 23 | 11:45 | 74.3 | 56.1 | 0 |
| 20230823T115000 | 2023 | 08 | 23 | 11:50 | 73.8 | 54.7 | 0 |
| 20230823T115500 | 2023 | 08 | 23 | 11:55 | 73.4 | 54.9 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230823T120000 | 2023 | 08 | 23 | 12:00 | 73.9 | 55.9 | 0 |
| 20230823T120500 | 2023 | 08 | 23 | 12:05 | 74.5 | 56.4 | 0 |
| 20230823T121000 | 2023 | 08 | 23 | 12:10 | 74.6 | 55.5 | 0 |
| 20230823T121500 | 2023 | 08 | 23 | 12:15 | 74.7 | 56.4 | 0 |
| 20230823T122000 | 2023 | 08 | 23 | 12:20 | 74.3 | 56.9 | 0 |
| 20230823T122500 | 2023 | 08 | 23 | 12:25 | 74.1 | 58.4 | 0 |
| 20230823T123000 | 2023 | 08 | 23 | 12:30 | 74.7 | 57.8 | 0 |
| 20230823T123500 | 2023 | 08 | 23 | 12:35 | 75.4 | 57.4 | 0 |
| 20230823T124000 | 2023 | 08 | 23 | 12:40 | 74.9 | 58.7 | 0 |
| 20230823T124500 | 2023 | 08 | 23 | 12:45 | 75.4 | 56.6 | 0 |
| 20230823T125000 | 2023 | 08 | 23 | 12:50 | 74.3 | 58.8 | 0 |
| 20230823T125500 | 2023 | 08 | 23 | 12:55 | 74.5 | 59.4 | 0 |
| 20230823T130000 | 2023 | 08 | 23 | 13:00 | 74.3 | 58.5 | 0 |
| 20230823T130500 | 2023 | 08 | 23 | 13:05 | 74 | 59.7 | 0 |
| 20230823T131000 | 2023 | 08 | 23 | 13:10 | 74.4 | 59.1 | 0 |
| 20230823T131500 | 2023 | 08 | 23 | 13:15 | 74.5 | 59.7 | 0 |
| 20230823T132000 | 2023 | 08 | 23 | 13:20 | 73.9 | 59.9 | 0 |
| 20230823T132500 | 2023 | 08 | 23 | 13:25 | 73.9 | 59.5 | 0 |
| 20230823T133000 | 2023 | 08 | 23 | 13:30 | 74.1 | 58.7 | 0 |
| 20230823T133500 | 2023 | 08 | 23 | 13:35 | 74 | 58.9 | 0 |
| 20230823T134000 | 2023 | 08 | 23 | 13:40 | 73.7 | 59.7 | 0 |
| 20230823T134500 | 2023 | 08 | 23 | 13:45 | 73.8 | 58.1 | 0 |
| 20230823T135000 | 2023 | 08 | 23 | 13:50 | 74.3 | 57.6 | 0 |
| 20230823T135500 | 2023 | 08 | 23 | 13:55 | 74.6 | 54.5 | 0 |
| 20230823T140000 | 2023 | 08 | 23 | 14:00 | 74.5 | 51.7 | 0 |
| 20230823T140500 | 2023 | 08 | 23 | 14:05 | 74.7 | 50.3 | 0 |
| 20230823T141000 | 2023 | 08 | 23 | 14:10 | 75.2 | 48.3 | 0 |
| 20230823T141500 | 2023 | 08 | 23 | 14:15 | 75.4 | 46.9 | 0 |
| 20230823T142000 | 2023 | 08 | 23 | 14:20 | 76.3 | 46.5 | 0 |
| 20230823T142500 | 2023 | 08 | 23 | 14:25 | 77 | 45.8 | 0 |
| 20230823T143000 | 2023 | 08 | 23 | 14:30 | 76.6 | 46.1 | 0 |
| 20230823T143500 | 2023 | 08 | 23 | 14:35 | 77 | 45.2 | 0 |
| 20230823T144000 | 2023 | 08 | 23 | 14:40 | 76.2 | 46.3 | 0 |
| 20230823T144500 | 2023 | 08 | 23 | 14:45 | 76.6 | 46.5 | 0 |
| 20230823T145000 | 2023 | 08 | 23 | 14:50 | 77.7 | 45.5 | 0 |
| 20230823T145500 | 2023 | 08 | 23 | 14:55 | 76.8 | 47.5 | 0 |
| 20230823T150000 | 2023 | 08 | 23 | 15:00 | 76.7 | 47.7 | 0 |
| 20230823T150500 | 2023 | 08 | 23 | 15:05 | 76.9 | 48 | 0 |
| 20230823T151000 | 2023 | 08 | 23 | 15:10 | 76.6 | 48.5 | 0 |
| 20230823T151500 | 2023 | 08 | 23 | 15:15 | 76.4 | 49.8 | 0 |
| 20230823T152000 | 2023 | 08 | 23 | 15:20 | 77.1 | 49.3 | 0 |
| 20230823T152500 | 2023 | 08 | 23 | 15:25 | 76.7 | 49.3 | 0 |
| 20230823T153000 | 2023 | 08 | 23 | 15:30 | 76.6 | 50 | 0 |
| 20230823T153500 | 2023 | 08 | 23 | 15:35 | 76.9 | 47.7 | 0 |
| 20230823T154000 | 2023 | 08 | 23 | 15:40 | 77.2 | 49.6 | 0 |
| 20230823T154500 | 2023 | 08 | 23 | 15:45 | 77.4 | 47.3 | 0 |
| 20230823T155000 | 2023 | 08 | 23 | 15:50 | 76.5 | 48.6 | 0 |
| 20230823T155500 | 2023 | 08 | 23 | 15:55 | 76.9 | 48.6 | 0 |
| 20230823T160000 | 2023 | 08 | 23 | 16:00 | 77.3 | 45.9 | 0 |
| 20230823T160500 | 2023 | 08 | 23 | 16:05 | 77 | 48 | 0 |
| 20230823T161000 | 2023 | 08 | 23 | 16:10 | 76.7 | 49.1 | 0 |
| 20230823T161500 | 2023 | 08 | 23 | 16:15 | 76.9 | 46.1 | 0 |
| 20230823T162000 | 2023 | 08 | 23 | 16:20 | 77 | 46.8 | 0 |
| 20230823T162500 | 2023 | 08 | 23 | 16:25 | 76.1 | 47.3 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230823T163000 | 2023 | 08 | 23 | 16:30 | 76.4 | 49.5 | 0 |
| 20230823T163500 | 2023 | 08 | 23 | 16:35 | 76.3 | 48.5 | 0 |
| 20230823T164000 | 2023 | 08 | 23 | 16:40 | 76.6 | 50.2 | 0 |
| 20230823T164500 | 2023 | 08 | 23 | 16:45 | 75.6 | 49.7 | 0 |
| 20230823T165000 | 2023 | 08 | 23 | 16:50 | 75.6 | 50.7 | 0 |
| 20230823T165500 | 2023 | 08 | 23 | 16:55 | 76.2 | 49 | 0 |
| 20230823T170000 | 2023 | 08 | 23 | 17:00 | 76.8 | 49.8 | 0 |
| 20230823T170500 | 2023 | 08 | 23 | 17:05 | 75.9 | 49.8 | 0 |
| 20230823T171000 | 2023 | 08 | 23 | 17:10 | 75.7 | 51.1 | 0 |
| 20230823T171500 | 2023 | 08 | 23 | 17:15 | 75.7 | 49.7 | 0 |
| 20230823T172000 | 2023 | 08 | 23 | 17:20 | 76 | 50.3 | 0 |
| 20230823T172500 | 2023 | 08 | 23 | 17:25 | 75.5 | 49.6 | 0 |
| 20230823T173000 | 2023 | 08 | 23 | 17:30 | 75.4 | 48.2 | 0 |
| 20230823T173500 | 2023 | 08 | 23 | 17:35 | 75.2 | 48 | 0 |
| 20230823T174000 | 2023 | 08 | 23 | 17:40 | 75.2 | 47.4 | 0 |
| 20230823T174500 | 2023 | 08 | 23 | 17:45 | 75.2 | 46.9 | 0 |
| 20230823T175000 | 2023 | 08 | 23 | 17:50 | 74.9 | 50.1 | 0 |
| 20230823T175500 | 2023 | 08 | 23 | 17:55 | 74.9 | 50.7 | 0 |
| 20230823T180000 | 2023 | 08 | 23 | 18:00 | 74.8 | 50.5 | 0 |
| 20230823T180500 | 2023 | 08 | 23 | 18:05 | 74.8 | 51.2 | 0 |
| 20230823T181000 | 2023 | 08 | 23 | 18:10 | 74.6 | 51.3 | 0 |
| 20230823T181500 | 2023 | 08 | 23 | 18:15 | 74.4 | 53.5 | 0 |
| 20230823T182000 | 2023 | 08 | 23 | 18:20 | 74.2 | 52.2 | 0 |
| 20230823T182500 | 2023 | 08 | 23 | 18:25 | 73.9 | 53.7 | 0 |
| 20230823T183000 | 2023 | 08 | 23 | 18:30 | 73.8 | 54.6 | 0 |
| 20230823T183500 | 2023 | 08 | 23 | 18:35 | 73.7 | 57.4 | 0 |
| 20230823T184000 | 2023 | 08 | 23 | 18:40 | 73.7 | 57.3 | 0 |
| 20230823T184500 | 2023 | 08 | 23 | 18:45 | 73.5 | 59 | 0 |
| 20230823T185000 | 2023 | 08 | 23 | 18:50 | 73.4 | 59.1 | 0 |
| 20230823T185500 | 2023 | 08 | 23 | 18:55 | 73.2 | 60.3 | 0 |
| 20230823T190000 | 2023 | 08 | 23 | 19:00 | 73 | 60.5 | 0 |
| 20230823T190500 | 2023 | 08 | 23 | 19:05 | 72.8 | 62.7 | 0 |
| 20230823T191000 | 2023 | 08 | 23 | 19:10 | 72.6 | 62.2 | 0 |
| 20230823T191500 | 2023 | 08 | 23 | 19:15 | 72.2 | 64.3 | 0 |
| 20230823T192000 | 2023 | 08 | 23 | 19:20 | 71.8 | 64.4 | 0 |
| 20230823T192500 | 2023 | 08 | 23 | 19:25 | 71.6 | 65 | 0 |
| 20230823T193000 | 2023 | 08 | 23 | 19:30 | 71.5 | 66.6 | 0 |
| 20230823T193500 | 2023 | 08 | 23 | 19:35 | 71.4 | 66.1 | 0 |
| 20230823T194000 | 2023 | 08 | 23 | 19:40 | 71.3 | 65.8 | 0 |
| 20230823T194500 | 2023 | 08 | 23 | 19:45 | 70.9 | 67.7 | 0 |
| 20230823T195000 | 2023 | 08 | 23 | 19:50 | 71.1 | 65.5 | 0 |
| 20230823T195500 | 2023 | 08 | 23 | 19:55 | 71.3 | 63.9 | 0 |
| 20230823T200000 | 2023 | 08 | 23 | 20:00 | 70.9 | 64.5 | 0 |
| 20230823T200500 | 2023 | 08 | 23 | 20:05 | 70.9 | 63.9 | 0 |
| 20230823T201000 | 2023 | 08 | 23 | 20:10 | 71.1 | 62.2 | 0 |
| 20230823T201500 | 2023 | 08 | 23 | 20:15 | 70.9 | 62.1 | 0 |
| 20230823T202000 | 2023 | 08 | 23 | 20:20 | 70.9 | 61.4 | 0 |
| 20230823T202500 | 2023 | 08 | 23 | 20:25 | 70.6 | 61.9 | 0 |
| 20230823T203000 | 2023 | 08 | 23 | 20:30 | 70.2 | 63.7 | 0 |
| 20230823T203500 | 2023 | 08 | 23 | 20:35 | 69.6 | 67 | 0 |
| 20230823T204000 | 2023 | 08 | 23 | 20:40 | 69.5 | 67.1 | 0 |
| 20230823T204500 | 2023 | 08 | 23 | 20:45 | 70.4 | 61.1 | 0 |
| 20230823T205000 | 2023 | 08 | 23 | 20:50 | 70.4 | 59.5 | 0 |
| 20230823T205500 | 2023 | 08 | 23 | 20:55 | 70 | 60.2 | 0 |

**Table C-1: Summer SUNY MesoNet Meteorological Data (Waterloo Station)**

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20230823T210000 | 2023 | 08 | 23 | 21:00 | 69.8 | 60.9 | 0 |
| 20230823T210500 | 2023 | 08 | 23 | 21:05 | 69.7 | 60.7 | 0 |
| 20230823T211000 | 2023 | 08 | 23 | 21:10 | 69.2 | 62.8 | 0 |
| 20230823T211500 | 2023 | 08 | 23 | 21:15 | 68.6 | 64.7 | 0 |
| 20230823T212000 | 2023 | 08 | 23 | 21:20 | 68.2 | 68.3 | 0 |
| 20230823T212500 | 2023 | 08 | 23 | 21:25 | 68.2 | 68.1 | 0 |
| 20230823T213000 | 2023 | 08 | 23 | 21:30 | 68.2 | 67.6 | 0 |
| 20230823T213500 | 2023 | 08 | 23 | 21:35 | 67.7 | 70.5 | 0 |
| 20230823T214000 | 2023 | 08 | 23 | 21:40 | 67.3 | 70.6 | 0 |
| 20230823T214500 | 2023 | 08 | 23 | 21:45 | 67 | 75 | 0 |
| 20230823T215000 | 2023 | 08 | 23 | 21:50 | 67.5 | 74.3 | 0 |
| 20230823T215500 | 2023 | 08 | 23 | 21:55 | 67.5 | 73 | 0 |
| 20230823T220000 | 2023 | 08 | 23 | 22:00 | 68.1 | 71.6 | 0 |
| 20230823T220500 | 2023 | 08 | 23 | 22:05 | 68.3 | 69.5 | 0 |
| 20230823T221000 | 2023 | 08 | 23 | 22:10 | 67.9 | 70 | 0 |
| 20230823T221500 | 2023 | 08 | 23 | 22:15 | 67.9 | 69 | 0 |
| 20230823T222000 | 2023 | 08 | 23 | 22:20 | 67.4 | 68.7 | 0 |
| 20230823T222500 | 2023 | 08 | 23 | 22:25 | 67.3 | 69.8 | 0 |
| 20230823T223000 | 2023 | 08 | 23 | 22:30 | 67.2 | 71.2 | 0 |
| 20230823T223500 | 2023 | 08 | 23 | 22:35 | 66.8 | 73.1 | 0 |
| 20230823T224000 | 2023 | 08 | 23 | 22:40 | 67 | 74.5 | 0 |
| 20230823T224500 | 2023 | 08 | 23 | 22:45 | 67.3 | 71.6 | 0 |
| 20230823T225000 | 2023 | 08 | 23 | 22:50 | 67.3 | 70.1 | 0 |
| 20230823T225500 | 2023 | 08 | 23 | 22:55 | 67.2 | 70.8 | 0 |
| 20230823T230000 | 2023 | 08 | 23 | 23:00 | 67.1 | 72.7 | 0 |
| 20230823T230500 | 2023 | 08 | 23 | 23:05 | 67 | 73.4 | 0 |
| 20230823T231000 | 2023 | 08 | 23 | 23:10 | 66.9 | 74.8 | 0 |
| 20230823T231500 | 2023 | 08 | 23 | 23:15 | 66.8 | 73.6 | 0 |
| 20230823T232000 | 2023 | 08 | 23 | 23:20 | 67.2 | 75.1 | 0 |
| 20230823T232500 | 2023 | 08 | 23 | 23:25 | 67 | 74.4 | 0 |
| 20230823T233000 | 2023 | 08 | 23 | 23:30 | 67.1 | 73.8 | 0 |
| 20230823T233500 | 2023 | 08 | 23 | 23:35 | 67.3 | 73.8 | 0 |
| 20230823T234000 | 2023 | 08 | 23 | 23:40 | 67.2 | 74.1 | 0 |
| 20230823T234500 | 2023 | 08 | 23 | 23:45 | 67.2 | 73.8 | 0 |
| 20230823T235000 | 2023 | 08 | 23 | 23:50 | 67.3 | 74 | 0 |
| 20230823T235500 | 2023 | 08 | 23 | 23:55 | 67.2 | 75 | 0 |

# Appendix 7-4

## Construction Modeled Sound Levels – $L_{eq}$ (1-Second)

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 1 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 2 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 3 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 4 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 5 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 6 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 7 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 8 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 9 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 10 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 11 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 12 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 13 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 14 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 15 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 16 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 17 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 18 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 19 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 20 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 21 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 22 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 23 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 24 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 25 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 26 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 27 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 28 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 29 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 30 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 31 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 32 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 33 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 34 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 35 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 36 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 37 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 38 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 39 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 40 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 41 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 42 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 43 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 44 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 45 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 46 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 47 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 48 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 49 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 50 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 51 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 52 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 53 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 54 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 55 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 56 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 57 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 58 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 59 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 60 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 61 | Non-Participating | 39 | 40 | 40 | 5 | 44 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 62 | Non-Participating | 39 | 40 | 40 | 5 | 45 |
| 63 | Non-Participating | 39 | 40 | 40 | 5 | 45 |
| 64 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 65 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 66 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 67 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 68 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 69 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 70 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 71 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 72 | Non-Participating | 39 | 40 | 40 | 5 | 45 |
| 73 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 74 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 75 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 76 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 77 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 78 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 79 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 80 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 81 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 82 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 83 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 84 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 85 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 86 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 87 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 88 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 89 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 90 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 91 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 92 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 93 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 94 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 95 | Non-Participating | 40 | 41 | 41 | 6 | 46 |
| 96 | Non-Participating | 40 | 42 | 41 | 6 | 46 |
| 97 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 98 | Non-Participating | 45 | 46 | 46 | 11 | 51 |
| 99 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 100 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 101 | Non-Participating | 51 | 52 | 52 | 17 | 57 |
| 102 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 103 | Non-Participating | 49 | 51 | 51 | 16 | 55 |
| 104 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 105 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 106 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 107 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 108 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 109 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 110 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 111 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 112 | Non-Participating | 44 | 45 | 45 | 10 | 49 |
| 113 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 114 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 115 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 116 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 117 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 118 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 119 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 120 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 121 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 122 | Non-Participating | 49 | 51 | 50 | 15 | 55 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 123 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 124 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 125 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 126 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 127 | Non-Participating | 44 | 46 | 45 | 10 | 50 |
| 128 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 129 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 130 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 131 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 132 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 133 | Non-Participating | 47 | 49 | 48 | 14 | 53 |
| 134 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 135 | Non-Participating | 45 | 46 | 46 | 11 | 51 |
| 136 | Non-Participating | 44 | 46 | 45 | 10 | 50 |
| 137 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 138 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 139 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 140 | Non-Participating | 44 | 44 | 44 | 10 | 49 |
| 141 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 142 | Non-Participating | 53 | 54 | 54 | 19 | 58 |
| 143 | Non-Participating | 53 | 55 | 54 | 19 | 59 |
| 144 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 145 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 146 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 147 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 148 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 149 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 150 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 151 | Non-Participating | 33 | 34 | 33 | -1 | 38 |
| 152 | Non-Participating | 31 | 33 | 32 | -3 | 37 |
| 153 | Non-Participating | 33 | 35 | 34 | -1 | 39 |
| 154 | Non-Participating | 31 | 33 | 32 | -3 | 37 |
| 155 | Non-Participating | 32 | 34 | 33 | -2 | 38 |
| 156 | Non-Participating | 34 | 36 | 35 | 0 | 40 |
| 157 | Non-Participating | 34 | 36 | 35 | 0 | 40 |
| 158 | Non-Participating | 34 | 35 | 35 | 0 | 39 |
| 159 | Non-Participating | 33 | 35 | 34 | -1 | 39 |
| 160 | Non-Participating | 33 | 34 | 34 | -1 | 39 |
| 161 | Non-Participating | 36 | 37 | 36 | 2 | 41 |
| 162 | Non-Participating | 37 | 38 | 37 | 3 | 42 |
| 163 | Non-Participating | 35 | 36 | 36 | 1 | 41 |
| 164 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 165 | Non-Participating | 35 | 37 | 36 | 1 | 41 |
| 166 | Non-Participating | 33 | 35 | 34 | -1 | 39 |
| 167 | Non-Participating | 35 | 37 | 36 | 1 | 41 |
| 168 | Non-Participating | 35 | 37 | 36 | 1 | 41 |
| 169 | Non-Participating | 35 | 37 | 37 | 2 | 41 |
| 170 | Non-Participating | 36 | 37 | 37 | 2 | 41 |
| 171 | Non-Participating | 35 | 37 | 36 | 1 | 41 |
| 172 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 173 | Non-Participating | 34 | 36 | 36 | 1 | 40 |
| 174 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 175 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 176 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 177 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 178 | Non-Participating | 33 | 35 | 34 | -1 | 39 |
| 179 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 180 | Non-Participating | 35 | 36 | 36 | 1 | 40 |
| 181 | Non-Participating | 32 | 34 | 33 | -2 | 38 |
| 182 | Non-Participating | 34 | 35 | 35 | 0 | 39 |
| 183 | Non-Participating | 34 | 35 | 35 | 0 | 39 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 184 | Non-Participating | 34 | 35 | 35 | 0 | 39 |
| 185 | Non-Participating | 34 | 35 | 35 | 0 | 39 |
| 186 | Non-Participating | 36 | 37 | 36 | 2 | 41 |
| 187 | Non-Participating | 32 | 34 | 33 | -2 | 38 |
| 188 | Non-Participating | 30 | 32 | 31 | -4 | 36 |
| 189 | Non-Participating | 31 | 32 | 32 | -3 | 36 |
| 190 | Non-Participating | 36 | 37 | 37 | 2 | 41 |
| 191 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 192 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 193 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 194 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 195 | Non-Participating | 37 | 38 | 38 | 3 | 43 |
| 196 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 197 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 198 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 199 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 200 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 201 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 202 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 203 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 204 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 205 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 206 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 207 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 208 | Non-Participating | 35 | 36 | 36 | 1 | 41 |
| 209 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 210 | Non-Participating | 37 | 38 | 38 | 3 | 43 |
| 211 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 212 | Non-Participating | 35 | 36 | 36 | 1 | 41 |
| 213 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 214 | Non-Participating | 37 | 39 | 38 | 4 | 43 |
| 215 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 216 | Non-Participating | 36 | 38 | 38 | 3 | 42 |
| 217 | Non-Participating | 34 | 36 | 35 | 0 | 40 |
| 218 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 219 | Non-Participating | 34 | 36 | 35 | 1 | 40 |
| 220 | Non-Participating | 34 | 36 | 35 | 0 | 40 |
| 221 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 222 | Non-Participating | 36 | 38 | 37 | 3 | 42 |
| 223 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 224 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 225 | Non-Participating | 36 | 38 | 38 | 3 | 42 |
| 226 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 227 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 228 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 229 | Non-Participating | 36 | 37 | 37 | 2 | 41 |
| 230 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 231 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 232 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 233 | Non-Participating | 36 | 38 | 37 | 2 | 42 |
| 234 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 235 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 236 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 237 | Non-Participating | 43 | 44 | 43 | 9 | 48 |
| 238 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 239 | Non-Participating | 42 | 42 | 42 | 8 | 47 |
| 240 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 241 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 242 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 243 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 244 | Non-Participating | 37 | 39 | 38 | 3 | 43 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 245 | Non-Participating | 41 | 42 | 41 | 7 | 46 |
| 246 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 247 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 248 | Non-Participating | 40 | 41 | 41 | 6 | 45 |
| 249 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 250 | Non-Participating | 40 | 41 | 41 | 6 | 45 |
| 251 | Non-Participating | 40 | 42 | 41 | 6 | 46 |
| 252 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 253 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 254 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 255 | Non-Participating | 40 | 41 | 41 | 6 | 45 |
| 256 | Non-Participating | 42 | 42 | 42 | 8 | 47 |
| 257 | Non-Participating | 42 | 44 | 44 | 9 | 48 |
| 258 | Non-Participating | 44 | 45 | 45 | 10 | 49 |
| 259 | Non-Participating | 43 | 45 | 44 | 10 | 49 |
| 260 | Non-Participating | 44 | 45 | 45 | 10 | 49 |
| 261 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 262 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 263 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 264 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 265 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 266 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 267 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 268 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 269 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 270 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 271 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 272 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 273 | Non-Participating | 51 | 52 | 52 | 17 | 57 |
| 274 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 275 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 276 | Non-Participating | 53 | 54 | 54 | 19 | 58 |
| 277 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 278 | Non-Participating | 53 | 54 | 54 | 19 | 58 |
| 279 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 280 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 281 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 282 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 283 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 284 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 285 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 286 | Non-Participating | 61 | 62 | 62 | 27 | 67 |
| 287 | Non-Participating | 64 | 66 | 65 | 30 | 70 |
| 288 | Non-Participating | 60 | 61 | 61 | 26 | 66 |
| 289 | Non-Participating | 63 | 64 | 63 | 28 | 68 |
| 290 | Non-Participating | 63 | 64 | 64 | 29 | 69 |
| 291 | Participating | 62 | 64 | 63 | 28 | 68 |
| 292 | Participating | 62 | 63 | 63 | 28 | 67 |
| 293 | Participating | 61 | 62 | 62 | 27 | 66 |
| 294 | Participating | 63 | 64 | 64 | 29 | 68 |
| 295 | Participating | 62 | 64 | 63 | 29 | 68 |
| 296 | Non-Participating | 62 | 64 | 63 | 28 | 68 |
| 297 | Non-Participating | 60 | 61 | 61 | 26 | 66 |
| 298 | Non-Participating | 60 | 61 | 61 | 26 | 65 |
| 299 | Non-Participating | 59 | 61 | 60 | 25 | 65 |
| 300 | Non-Participating | 56 | 57 | 57 | 22 | 62 |
| 301 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 302 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 303 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 304 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 305 | Non-Participating | 53 | 55 | 54 | 19 | 59 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 306 | Non-Participating | 53 | 55 | 54 | 19 | 59 |
| 307 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 308 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 309 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 310 | Non-Participating | 53 | 54 | 54 | 19 | 58 |
| 311 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 312 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 313 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 314 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 315 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 316 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 317 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 318 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 319 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 320 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 321 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 322 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 323 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 324 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 325 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 326 | Non-Participating | 42 | 44 | 44 | 9 | 48 |
| 327 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 328 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 329 | Non-Participating | 50 | 52 | 52 | 17 | 56 |
| 330 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 331 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 332 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 333 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 334 | Non-Participating | 55 | 57 | 56 | 21 | 61 |
| 335 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 336 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 337 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 338 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 339 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 340 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 341 | Non-Participating | 55 | 57 | 56 | 21 | 61 |
| 342 | Non-Participating | 56 | 57 | 57 | 22 | 62 |
| 343 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 344 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 345 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 346 | Non-Participating | 50 | 51 | 51 | 16 | 56 |
| 347 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 348 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 349 | Non-Participating | 62 | 63 | 63 | 28 | 67 |
| 350 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 351 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 352 | Non-Participating | 53 | 55 | 54 | 19 | 59 |
| 353 | Non-Participating | 53 | 54 | 54 | 19 | 58 |
| 354 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 355 | Non-Participating | 51 | 53 | 52 | 18 | 57 |
| 356 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 357 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 358 | Non-Participating | 54 | 55 | 55 | 20 | 60 |
| 359 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 360 | Non-Participating | 51 | 53 | 52 | 18 | 57 |
| 361 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 362 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 363 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 364 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 365 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 366 | Non-Participating | 49 | 50 | 50 | 15 | 54 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 367 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 368 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 369 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 370 | Non-Participating | 47 | 48 | 48 | 13 | 53 |
| 371 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 372 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 373 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 374 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 375 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 376 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 377 | Non-Participating | 47 | 49 | 49 | 14 | 53 |
| 378 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 379 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 380 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 381 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 382 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 383 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 384 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 385 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 386 | Non-Participating | 46 | 48 | 48 | 13 | 52 |
| 387 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 388 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 389 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 390 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 391 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 392 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 393 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 394 | Non-Participating | 45 | 47 | 47 | 12 | 51 |
| 395 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 396 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 397 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 398 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 399 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 400 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 401 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 402 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 403 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 404 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 405 | Non-Participating | 50 | 52 | 51 | 17 | 56 |
| 406 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 407 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 408 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 409 | Non-Participating | 51 | 52 | 52 | 17 | 57 |
| 410 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 411 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 412 | Non-Participating | 51 | 53 | 52 | 18 | 57 |
| 413 | Non-Participating | 50 | 52 | 51 | 18 | 56 |
| 414 | Non-Participating | 47 | 48 | 48 | 13 | 53 |
| 415 | Non-Participating | 47 | 48 | 48 | 13 | 53 |
| 416 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 417 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 418 | Non-Participating | 51 | 53 | 52 | 18 | 57 |
| 419 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 420 | Non-Participating | 51 | 53 | 53 | 18 | 57 |
| 421 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 422 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 423 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 424 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 425 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 426 | Non-Participating | 50 | 52 | 51 | 17 | 56 |
| 427 | Non-Participating | 50 | 51 | 51 | 16 | 55 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 428 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 429 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 430 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 431 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 432 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 433 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 434 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 435 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 436 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 437 | Non-Participating | 43 | 44 | 44 | 9 | 48 |
| 438 | Non-Participating | 43 | 44 | 44 | 9 | 48 |
| 439 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 440 | Non-Participating | 43 | 44 | 44 | 9 | 48 |
| 441 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 442 | Non-Participating | 42 | 43 | 43 | 8 | 48 |
| 443 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 444 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 445 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 446 | Non-Participating | 41 | 42 | 42 | 7 | 46 |
| 447 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 448 | Non-Participating | 41 | 42 | 42 | 7 | 46 |
| 449 | Non-Participating | 40 | 42 | 41 | 7 | 46 |
| 450 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 451 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 452 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 453 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 454 | Non-Participating | 37 | 39 | 38 | 4 | 43 |
| 455 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 456 | Non-Participating | 37 | 39 | 39 | 4 | 43 |
| 457 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 458 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 459 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 460 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 461 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 462 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 463 | Non-Participating | 39 | 41 | 40 | 7 | 45 |
| 464 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 465 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 466 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 467 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 468 | Non-Participating | 41 | 42 | 42 | 7 | 47 |
| 469 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 470 | Non-Participating | 41 | 42 | 42 | 7 | 46 |
| 471 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 472 | Non-Participating | 41 | 42 | 42 | 7 | 47 |
| 473 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 474 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 475 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 476 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 477 | Non-Participating | 41 | 43 | 43 | 8 | 47 |
| 478 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 479 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 480 | Non-Participating | 42 | 43 | 42 | 7 | 47 |
| 481 | Non-Participating | 42 | 43 | 42 | 8 | 47 |
| 482 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 483 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 484 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 485 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 486 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 487 | Non-Participating | 40 | 41 | 41 | 6 | 45 |
| 488 | Non-Participating | 40 | 42 | 41 | 6 | 46 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 489 | Non-Participating | 41 | 43 | 43 | 8 | 47 |
| 490 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 491 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 492 | Non-Participating | 39 | 41 | 40 | 6 | 45 |
| 493 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 494 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 495 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 496 | Non-Participating | 41 | 42 | 42 | 7 | 46 |
| 497 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 498 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 499 | Non-Participating | 42 | 43 | 43 | 8 | 48 |
| 500 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 501 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 502 | Non-Participating | 42 | 43 | 43 | 8 | 48 |
| 503 | Non-Participating | 42 | 43 | 43 | 8 | 48 |
| 504 | Non-Participating | 42 | 43 | 43 | 8 | 48 |
| 505 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 506 | Non-Participating | 42 | 44 | 44 | 9 | 48 |
| 507 | Non-Participating | 43 | 44 | 44 | 9 | 48 |
| 508 | Non-Participating | 41 | 43 | 43 | 8 | 47 |
| 509 | Non-Participating | 41 | 43 | 42 | 8 | 47 |
| 510 | Non-Participating | 42 | 43 | 43 | 8 | 47 |
| 511 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 512 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 513 | Non-Participating | 50 | 51 | 50 | 16 | 55 |
| 514 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 515 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 516 | Non-Participating | 50 | 51 | 50 | 16 | 55 |
| 517 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 518 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 519 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 520 | Non-Participating | 53 | 55 | 54 | 19 | 59 |
| 521 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 522 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 523 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 524 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 525 | Non-Participating | 54 | 55 | 55 | 20 | 59 |
| 526 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 527 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 528 | Non-Participating | 55 | 57 | 56 | 21 | 61 |
| 529 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 530 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 531 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 532 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 533 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 534 | Non-Participating | 56 | 57 | 57 | 22 | 62 |
| 535 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 536 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 537 | Non-Participating | 58 | 59 | 59 | 24 | 63 |
| 538 | Non-Participating | 58 | 60 | 59 | 24 | 64 |
| 539 | Non-Participating | 57 | 58 | 58 | 23 | 63 |
| 540 | Non-Participating | 58 | 60 | 60 | 24 | 64 |
| 541 | Non-Participating | 55 | 57 | 56 | 21 | 61 |
| 542 | Non-Participating | 55 | 57 | 56 | 21 | 60 |
| 543 | Non-Participating | 50 | 52 | 52 | 17 | 56 |
| 544 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 545 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 546 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 547 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 548 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 549 | Non-Participating | 50 | 51 | 51 | 16 | 55 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 550 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 551 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 552 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 553 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 554 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 555 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 556 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 557 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 558 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 559 | Non-Participating | 46 | 48 | 48 | 13 | 52 |
| 560 | Non-Participating | 46 | 48 | 47 | 13 | 52 |
| 561 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 562 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 563 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 564 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 565 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 566 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 567 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 568 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 569 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 570 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 571 | Non-Participating | 46 | 48 | 48 | 13 | 52 |
| 572 | Non-Participating | 46 | 48 | 47 | 13 | 52 |
| 573 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 574 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 575 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 576 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 577 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 578 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 579 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 580 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 581 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 582 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 583 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 584 | Non-Participating | 49 | 51 | 51 | 16 | 55 |
| 585 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 586 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 587 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 588 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 589 | Non-Participating | 51 | 53 | 52 | 17 | 57 |
| 590 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 591 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 592 | Non-Participating | 48 | 50 | 50 | 15 | 54 |
| 593 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 594 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 595 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 596 | Non-Participating | 48 | 50 | 50 | 15 | 54 |
| 597 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 598 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 599 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 600 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 601 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 602 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 603 | Non-Participating | 46 | 48 | 48 | 13 | 52 |
| 604 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 605 | Non-Participating | 47 | 49 | 49 | 14 | 53 |
| 606 | Non-Participating | 47 | 48 | 48 | 13 | 53 |
| 607 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 608 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 609 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 610 | Non-Participating | 46 | 48 | 47 | 12 | 52 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 611 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 612 | Non-Participating | 43 | 44 | 44 | 9 | 49 |
| 613 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 614 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 615 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 616 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 617 | Non-Participating | 55 | 56 | 56 | 21 | 61 |
| 618 | Non-Participating | 55 | 57 | 56 | 21 | 61 |
| 619 | Participating | 59 | 60 | 60 | 25 | 64 |
| 620 | Non-Participating | 65 | 66 | 66 | 31 | 71 |
| 621 | Non-Participating | 61 | 63 | 62 | 27 | 67 |
| 622 | Non-Participating | 64 | 65 | 65 | 30 | 69 |
| 623 | Non-Participating | 62 | 63 | 63 | 28 | 67 |
| 624 | Non-Participating | 66 | 68 | 67 | 32 | 72 |
| 625 | Non-Participating | 71 | 73 | 73 | 38 | 77 |
| 626 | Non-Participating | 71 | 73 | 72 | 37 | 77 |
| 627 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 628 | Non-Participating | 54 | 55 | 55 | 20 | 60 |
| 629 | Non-Participating | 60 | 62 | 61 | 26 | 66 |
| 630 | Non-Participating | 59 | 60 | 60 | 25 | 64 |
| 631 | Non-Participating | 59 | 61 | 60 | 25 | 65 |
| 632 | Non-Participating | 58 | 60 | 59 | 25 | 64 |
| 633 | Non-Participating | 58 | 59 | 59 | 24 | 63 |
| 634 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 635 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 636 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 637 | Non-Participating | 58 | 60 | 59 | 25 | 64 |
| 638 | Non-Participating | 60 | 61 | 61 | 26 | 65 |
| 639 | Non-Participating | 58 | 59 | 59 | 24 | 64 |
| 640 | Non-Participating | 58 | 59 | 59 | 24 | 63 |
| 641 | Non-Participating | 58 | 59 | 59 | 24 | 64 |
| 642 | Non-Participating | 58 | 60 | 60 | 25 | 64 |
| 643 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 644 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 645 | Non-Participating | 59 | 60 | 60 | 25 | 65 |
| 646 | Non-Participating | 59 | 60 | 60 | 25 | 64 |
| 647 | Non-Participating | 58 | 60 | 59 | 24 | 64 |
| 648 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 649 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 650 | Non-Participating | 62 | 64 | 63 | 28 | 68 |
| 651 | Non-Participating | 61 | 63 | 62 | 27 | 67 |
| 652 | Non-Participating | 64 | 66 | 66 | 31 | 70 |
| 653 | Non-Participating | 64 | 65 | 65 | 30 | 69 |
| 654 | Non-Participating | 63 | 64 | 64 | 29 | 68 |
| 655 | Non-Participating | 63 | 65 | 64 | 30 | 69 |
| 656 | Non-Participating | 63 | 65 | 64 | 30 | 69 |
| 657 | Non-Participating | 65 | 66 | 66 | 31 | 70 |
| 658 | Non-Participating | 64 | 66 | 65 | 31 | 70 |
| 659 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 660 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 661 | Non-Participating | 56 | 58 | 57 | 22 | 62 |
| 662 | Non-Participating | 57 | 58 | 58 | 23 | 62 |
| 663 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 664 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 665 | Non-Participating | 58 | 60 | 59 | 24 | 64 |
| 666 | Non-Participating | 58 | 60 | 60 | 25 | 64 |
| 667 | Non-Participating | 59 | 60 | 60 | 25 | 64 |
| 668 | Non-Participating | 63 | 65 | 65 | 29 | 69 |
| 669 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 670 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 671 | Non-Participating | 52 | 54 | 53 | 18 | 58 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 672 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 673 | Participating | 52 | 53 | 53 | 18 | 58 |
| 674 | Participating | 52 | 53 | 53 | 18 | 57 |
| 675 | Non-Participating | 58 | 60 | 59 | 24 | 64 |
| 676 | Non-Participating | 58 | 59 | 59 | 24 | 63 |
| 677 | Non-Participating | 57 | 59 | 59 | 24 | 63 |
| 678 | Non-Participating | 60 | 62 | 62 | 27 | 66 |
| 679 | Non-Participating | 57 | 59 | 58 | 24 | 63 |
| 680 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 681 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 682 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 683 | Non-Participating | 52 | 53 | 53 | 18 | 58 |
| 684 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 685 | Non-Participating | 52 | 54 | 54 | 19 | 58 |
| 686 | Non-Participating | 52 | 55 | 54 | 18 | 58 |
| 687 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 688 | Non-Participating | 54 | 56 | 56 | 21 | 60 |
| 689 | Non-Participating | 54 | 56 | 56 | 21 | 60 |
| 690 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 691 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 692 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 693 | Non-Participating | 55 | 56 | 56 | 21 | 60 |
| 694 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 695 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 696 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 697 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 698 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 699 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 700 | Non-Participating | 47 | 48 | 47 | 13 | 52 |
| 701 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 702 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 703 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 704 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 705 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 706 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 707 | Non-Participating | 44 | 46 | 45 | 10 | 50 |
| 708 | Non-Participating | 46 | 46 | 46 | 10 | 51 |
| 709 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 710 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 711 | Non-Participating | 45 | 46 | 46 | 10 | 50 |
| 712 | Non-Participating | 44 | 46 | 45 | 10 | 50 |
| 713 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 714 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 715 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 716 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 717 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 718 | Non-Participating | 44 | 46 | 45 | 10 | 50 |
| 719 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 720 | Non-Participating | 45 | 47 | 47 | 12 | 51 |
| 721 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 722 | Non-Participating | 45 | 46 | 45 | 11 | 50 |
| 723 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 724 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 725 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 726 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 727 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 728 | Non-Participating | 45 | 47 | 47 | 12 | 51 |
| 729 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 730 | Non-Participating | 55 | 57 | 56 | 22 | 61 |
| 731 | Non-Participating | 57 | 59 | 58 | 23 | 63 |
| 732 | Non-Participating | 58 | 59 | 59 | 24 | 63 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 733 | Non-Participating | 49 | 50 | 50 | 15 | 55 |
| 734 | Non-Participating | 44 | 45 | 45 | 10 | 50 |
| 735 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 736 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 737 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 738 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 739 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 740 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 741 | Non-Participating | 38 | 40 | 40 | 5 | 44 |
| 742 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 743 | Non-Participating | 38 | 39 | 39 | 4 | 44 |
| 744 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 745 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 746 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 747 | Non-Participating | 39 | 40 | 40 | 5 | 44 |
| 748 | Non-Participating | 39 | 40 | 40 | 5 | 45 |
| 749 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 750 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 751 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 752 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 753 | Non-Participating | 39 | 40 | 40 | 5 | 45 |
| 754 | Non-Participating | 56 | 57 | 57 | 22 | 61 |
| 755 | Non-Participating | 34 | 35 | 35 | 0 | 39 |
| 756 | Non-Participating | 36 | 37 | 36 | 2 | 41 |
| 757 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 758 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 759 | Non-Participating | 44 | 45 | 45 | 10 | 49 |
| 760 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 761 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 762 | Non-Participating | 40 | 42 | 41 | 6 | 46 |
| 763 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 764 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 765 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 766 | Non-Participating | 39 | 41 | 40 | 5 | 45 |
| 767 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 768 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 769 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 770 | Non-Participating | 48 | 49 | 49 | 14 | 54 |
| 771 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 772 | Non-Participating | 47 | 48 | 48 | 13 | 52 |
| 773 | Non-Participating | 46 | 48 | 47 | 13 | 52 |
| 774 | Non-Participating | 46 | 48 | 48 | 13 | 52 |
| 775 | Non-Participating | 47 | 49 | 48 | 13 | 53 |
| 776 | Non-Participating | 62 | 65 | 64 | 28 | 68 |
| 777 | Non-Participating | 59 | 60 | 60 | 25 | 64 |
| 778 | Non-Participating | 45 | 46 | 46 | 10 | 50 |
| 779 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 780 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 781 | Non-Participating | 51 | 52 | 52 | 17 | 57 |
| 782 | Non-Participating | 46 | 48 | 48 | 13 | 52 |
| 783 | Non-Participating | 50 | 52 | 52 | 17 | 56 |
| 784 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 785 | Non-Participating | 60 | 61 | 61 | 26 | 66 |
| 786 | Non-Participating | 53 | 54 | 54 | 19 | 58 |
| 787 | Non-Participating | 58 | 60 | 59 | 24 | 64 |
| 788 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 789 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 790 | Non-Participating | 53 | 55 | 54 | 19 | 59 |
| 791 | Non-Participating | 54 | 56 | 55 | 20 | 60 |
| 792 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 793 | Non-Participating | 46 | 48 | 47 | 12 | 52 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 794 | Non-Participating | 48 | 50 | 50 | 15 | 54 |
| 795 | Non-Participating | 49 | 51 | 51 | 16 | 55 |
| 796 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 797 | Non-Participating | 40 | 42 | 41 | 6 | 46 |
| 798 | Non-Participating | 35 | 37 | 36 | 1 | 41 |
| 799 | Non-Participating | 59 | 61 | 60 | 25 | 65 |
| 800 | Non-Participating | 31 | 33 | 32 | -3 | 37 |
| 801 | Non-Participating | 58 | 59 | 59 | 24 | 63 |
| 802 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 803 | Non-Participating | 41 | 42 | 42 | 7 | 47 |
| 804 | Non-Participating | 61 | 62 | 62 | 27 | 66 |
| 805 | Non-Participating | 36 | 37 | 37 | 2 | 42 |
| 806 | Non-Participating | 42 | 44 | 43 | 8 | 48 |
| 807 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 808 | Non-Participating | 41 | 43 | 43 | 8 | 47 |
| 809 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 810 | Non-Participating | 55 | 57 | 57 | 22 | 61 |
| 811 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 812 | Non-Participating | 48 | 50 | 50 | 15 | 54 |
| 813 | Non-Participating | 32 | 34 | 33 | -2 | 38 |
| 814 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 815 | Non-Participating | 49 | 51 | 50 | 15 | 55 |
| 816 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 817 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 818 | Non-Participating | 37 | 38 | 38 | 3 | 42 |
| 819 | Non-Participating | 60 | 62 | 61 | 26 | 66 |
| 820 | Non-Participating | 48 | 50 | 50 | 15 | 54 |
| 821 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 822 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 823 | Non-Participating | 46 | 48 | 47 | 12 | 52 |
| 824 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 825 | Non-Participating | 40 | 42 | 41 | 6 | 46 |
| 826 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 827 | Non-Participating | 32 | 34 | 33 | -2 | 38 |
| 828 | Non-Participating | 41 | 43 | 43 | 8 | 47 |
| 829 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 830 | Non-Participating | 48 | 50 | 49 | 14 | 54 |
| 831 | Non-Participating | 41 | 43 | 43 | 8 | 47 |
| 832 | Non-Participating | 53 | 55 | 54 | 20 | 59 |
| 833 | Non-Participating | 55 | 57 | 56 | 21 | 61 |
| 834 | Non-Participating | 61 | 62 | 62 | 27 | 66 |
| 835 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 836 | Non-Participating | 50 | 52 | 51 | 16 | 56 |
| 837 | Non-Participating | 38 | 40 | 39 | 4 | 44 |
| 838 | Non-Participating | 48 | 50 | 49 | 15 | 54 |
| 839 | Non-Participating | 37 | 39 | 38 | 3 | 43 |
| 840 | Non-Participating | 61 | 62 | 62 | 27 | 67 |
| 841 | Non-Participating | 34 | 36 | 35 | 0 | 40 |
| 842 | Non-Participating | 40 | 42 | 41 | 6 | 46 |
| 843 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 844 | Non-Participating | 48 | 49 | 49 | 14 | 53 |
| 845 | Non-Participating | 49 | 50 | 50 | 15 | 54 |
| 846 | Non-Participating | 50 | 52 | 52 | 17 | 56 |
| 847 | Non-Participating | 51 | 52 | 52 | 17 | 56 |
| 848 | Non-Participating | 52 | 54 | 53 | 18 | 58 |
| 849 | Non-Participating | 33 | 35 | 35 | -1 | 39 |
| 850 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 851 | Non-Participating | 46 | 47 | 47 | 12 | 52 |
| 852 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 853 | Non-Participating | 41 | 43 | 42 | 7 | 47 |
| 854 | Non-Participating | 51 | 53 | 52 | 17 | 57 |

**Table 7-4: Cumulative Unmitigated Construction Sound Levels [dBA]**

| Receptor ID | Participation Status | Site Preparation & Grading | Trenching & Road Construction | Equipment Installation | Commissioning | Worst-Case Total |
|---|---|---|---|---|---|---|
| 855 | Non-Participating | 52 | 53 | 53 | 18 | 57 |
| 856 | Non-Participating | 45 | 46 | 46 | 11 | 50 |
| 857 | Non-Participating | 34 | 35 | 34 | 0 | 39 |
| 858 | Non-Participating | 43 | 45 | 44 | 9 | 49 |
| 859 | Non-Participating | 38 | 39 | 39 | 4 | 43 |
| 860 | Non-Participating | 50 | 51 | 51 | 16 | 55 |
| 861 | Non-Participating | 45 | 47 | 46 | 11 | 51 |
| 862 | Non-Participating | 46 | 47 | 47 | 12 | 51 |
| 863 | Non-Participating | 36 | 37 | 37 | 2 | 41 |
| 864 | Non-Participating | 34 | 36 | 35 | 0 | 40 |
| 865 | Non-Participating | 51 | 53 | 52 | 17 | 57 |

# Appendix 7-5

## Project Modeled Sound Levels – $L_{eq}$ (8-hour)

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1 | Residence | Non-Participating | 340426.95 | 4757902.14 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 2 | Residence | Non-Participating | 340415.40 | 4757879.73 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 3 | Residence | Non-Participating | 340379.40 | 4757860.89 | 13 | 20 | 21 | 21 | 15 | 13 | 4 | 0 | 0 | 0 |
| 4 | Residence | Non-Participating | 340417.28 | 4757863.52 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 5 | Residence | Non-Participating | 340393.75 | 4757848.01 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 6 | Residence | Non-Participating | 340383.78 | 4757826.93 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 7 | Residence | Non-Participating | 340360.48 | 4757816.12 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 8 | Residence | Non-Participating | 340361.08 | 4757799.40 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 9 | Residence | Non-Participating | 340375.63 | 4757805.66 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 10 | Residence | Non-Participating | 340392.94 | 4757813.23 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 11 | Residence | Non-Participating | 340415.74 | 4757822.22 | 17 | 26 | 30 | 24 | 17 | 17 | 10 | 0 | 0 | 0 |
| 12 | Residence | Non-Participating | 340426.38 | 4757814.28 | 17 | 26 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 13 | Residence | Non-Participating | 340356.52 | 4757766.62 | 14 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 14 | Residence | Non-Participating | 340381.67 | 4757778.49 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 15 | Residence | Non-Participating | 340373.01 | 4757760.13 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 16 | Residence | Non-Participating | 340392.58 | 4757765.46 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 17 | Residence | Non-Participating | 340431.69 | 4757800.09 | 17 | 26 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 18 | Residence | Non-Participating | 340434.52 | 4757786.99 | 17 | 26 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 19 | Residence | Non-Participating | 340435.24 | 4757774.39 | 14 | 23 | 23 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 20 | Residence | Non-Participating | 340440.05 | 4757739.88 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 21 | Residence | Non-Participating | 340426.49 | 4757726.13 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 22 | Residence | Non-Participating | 340417.11 | 4757719.43 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 23 | Residence | Non-Participating | 340406.47 | 4757709.18 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 24 | Residence | Non-Participating | 340402.69 | 4757735.36 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 25 | Residence | Non-Participating | 340358.76 | 4757734.29 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 26 | Residence | Non-Participating | 340343.14 | 4757736.96 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 27 | Residence | Non-Participating | 340333.94 | 4757739.98 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 28 | Residence | Non-Participating | 340348.74 | 4757756.79 | 14 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 29 | Residence | Non-Participating | 340335.17 | 4757754.68 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 30 | Residence | Non-Participating | 340316.69 | 4757693.55 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 31 | Residence | Non-Participating | 340327.13 | 4757705.69 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 32 | Residence | Non-Participating | 340337.92 | 4757699.32 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 33 | Residence | Non-Participating | 340369.33 | 4757703.00 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 34 | Residence | Non-Participating | 340351.98 | 4757702.14 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 35 | Residence | Non-Participating | 340376.25 | 4757679.84 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 36 | Residence | Non-Participating | 340362.59 | 4757673.22 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 37 | Residence | Non-Participating | 340389.16 | 4757646.84 | 14 | 20 | 21 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 38 | Residence | Non-Participating | 340401.47 | 4757658.00 | 14 | 20 | 21 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 39 | Residence | Non-Participating | 340419.72 | 4757656.24 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 40 | Residence | Non-Participating | 340436.18 | 4757685.60 | 14 | 21 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 41 | Residence | Non-Participating | 340416.88 | 4757682.16 | 14 | 21 | 22 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 42 | Residence | Non-Participating | 340311.86 | 4757613.40 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 43 | Residence | Non-Participating | 340328.24 | 4757613.81 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 44 | Residence | Non-Participating | 340346.55 | 4757615.12 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 45 | Residence | Non-Participating | 340396.72 | 4757619.64 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 46 | Residence | Non-Participating | 340430.67 | 4757620.19 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 47 | Residence | Non-Participating | 340451.14 | 4757622.89 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 48 | Residence | Non-Participating | 340489.24 | 4757629.76 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 49 | Residence | Non-Participating | 340504.05 | 4757634.71 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 50 | Residence | Non-Participating | 340520.00 | 4757636.78 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 51 | Residence | Non-Participating | 340532.64 | 4757639.87 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 52 | Residence | Non-Participating | 340439.48 | 4757659.66 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 53 | Residence | Non-Participating | 340449.09 | 4757653.07 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 54 | Residence | Non-Participating | 340494.12 | 4757661.72 | 15 | 21 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 55 | Residence | Non-Participating | 340507.19 | 4757675.24 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 56 | Residence | Non-Participating | 340516.67 | 4757661.53 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 57 | Residence | Non-Participating | 340526.30 | 4757681.53 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 58 | Residence | Non-Participating | 340535.51 | 4757666.16 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 59 | Residence | Non-Participating | 340543.72 | 4757686.18 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 60 | Residence | Non-Participating | 340552.67 | 4757670.35 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 61 | Residence | Non-Participating | 340563.24 | 4757689.61 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 62 | Residence | Non-Participating | 340570.13 | 4757677.14 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 63 | Residence | Non-Participating | 340579.71 | 4757694.29 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 64 | Residence | Non-Participating | 340452.34 | 4757699.53 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 65 | Residence | Non-Participating | 340498.34 | 4757709.35 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 66 | Residence | Non-Participating | 340507.38 | 4757698.02 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 67 | Residence | Non-Participating | 340523.89 | 4757717.41 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 68 | Residence | Non-Participating | 340543.46 | 4757723.22 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 69 | Residence | Non-Participating | 340542.91 | 4757706.37 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 70 | Residence | Non-Participating | 340458.72 | 4757722.91 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 71 | Residence | Non-Participating | 340599.54 | 4757751.59 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 72 | Residence | Non-Participating | 340628.17 | 4757746.55 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 73 | Residence | Non-Participating | 340635.45 | 4757729.55 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 74 | Residence | Non-Participating | 340633.05 | 4757715.60 | 18 | 26 | 31 | 25 | 18 | 19 | 11 | 0 | 0 | 0 |
| 75 | Residence | Non-Participating | 340634.72 | 4757766.84 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 76 | Residence | Non-Participating | 340631.72 | 4757783.98 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 77 | Residence | Non-Participating | 340624.23 | 4757802.16 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 78 | Residence | Non-Participating | 340599.68 | 4757783.87 | 15 | 20 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 79 | Residence | Non-Participating | 340582.48 | 4757778.03 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 80 | Residence | Non-Participating | 340555.61 | 4757775.68 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 81 | Residence | Non-Participating | 340547.91 | 4757795.53 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 82 | Residence | Non-Participating | 340539.13 | 4757808.04 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 83 | Residence | Non-Participating | 340561.25 | 4757823.29 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 84 | Residence | Non-Participating | 340568.27 | 4757842.86 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 85 | Residence | Non-Participating | 340444.57 | 4757866.55 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 86 | Residence | Non-Participating | 340445.67 | 4757849.44 | 17 | 26 | 30 | 24 | 17 | 18 | 11 | 0 | 0 | 0 |
| 87 | Residence | Non-Participating | 340446.33 | 4757833.76 | 18 | 27 | 30 | 24 | 18 | 18 | 11 | 0 | 0 | 0 |
| 88 | Residence | Non-Participating | 340452.78 | 4757899.39 | 14 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 89 | Residence | Non-Participating | 340473.15 | 4757909.45 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 90 | Residence | Non-Participating | 340496.73 | 4757900.94 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 91 | Residence | Non-Participating | 340536.12 | 4757913.02 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 92 | Residence | Non-Participating | 340540.23 | 4757832.03 | 14 | 20 | 21 | 22 | 15 | 14 | 6 | 0 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 93 | Residence | Non-Participating | 340510.49 | 4757825.92 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 94 | Residence | Non-Participating | 340498.81 | 4757836.99 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 95 | Residence | Non-Participating | 340560.50 | 4757390.93 | 16 | 21 | 23 | 23 | 17 | 16 | 9 | 0 | 0 | 0 |
| 96 | Residence | Non-Participating | 340552.99 | 4757339.53 | 16 | 21 | 23 | 23 | 17 | 16 | 9 | 1 | 0 | 0 |
| 97 | Residence | Non-Participating | 341120.31 | 4757471.02 | 18 | 23 | 24 | 25 | 19 | 18 | 11 | 2 | 0 | 0 |
| 98 | Residence | Non-Participating | 341366.49 | 4757368.40 | 21 | 25 | 26 | 26 | 21 | 20 | 15 | 11 | 0 | 0 |
| 102 | Residence | Non-Participating | 341656.56 | 4757542.28 | 26 | 34 | 36 | 29 | 24 | 25 | 21 | 16 | 0 | 0 |
| 103 | Residence | Non-Participating | 341698.26 | 4757535.20 | 26 | 34 | 36 | 30 | 24 | 25 | 21 | 16 | 0 | 0 |
| 104 | Residence | Non-Participating | 341741.26 | 4757536.39 | 26 | 33 | 36 | 30 | 24 | 25 | 21 | 15 | 0 | 0 |
| 105 | Residence | Non-Participating | 341814.04 | 4757521.56 | 26 | 33 | 36 | 30 | 24 | 26 | 21 | 16 | 0 | 0 |
| 109 | Residence | Non-Participating | 341951.65 | 4757450.49 | 28 | 34 | 37 | 31 | 25 | 27 | 23 | 18 | 0 | 0 |
| 110 | Residence | Non-Participating | 341934.64 | 4757596.93 | 26 | 33 | 36 | 30 | 24 | 26 | 21 | 15 | 0 | 0 |
| 111 | Residence | Non-Participating | 341939.66 | 4757635.22 | 26 | 33 | 36 | 30 | 24 | 25 | 21 | 15 | 0 | 0 |
| 112 | Residence | Non-Participating | 341887.26 | 4757697.81 | 20 | 24 | 26 | 26 | 21 | 20 | 14 | 8 | 0 | 0 |
| 113 | Residence | Non-Participating | 341918.41 | 4757754.52 | 20 | 24 | 26 | 26 | 21 | 20 | 13 | 7 | 0 | 0 |
| 114 | Residence | Non-Participating | 341855.91 | 4757767.16 | 20 | 26 | 27 | 26 | 20 | 20 | 14 | 8 | 0 | 0 |
| 115 | Residence | Non-Participating | 341933.81 | 4757841.90 | 24 | 32 | 35 | 28 | 23 | 24 | 19 | 11 | 0 | 0 |
| 116 | Residence | Non-Participating | 341927.88 | 4757876.97 | 24 | 31 | 35 | 28 | 22 | 24 | 18 | 11 | 0 | 0 |
| 118 | Residence | Non-Participating | 341933.48 | 4757946.20 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 122 | Residence | Non-Participating | 342155.76 | 4757532.88 | 27 | 34 | 37 | 31 | 25 | 27 | 22 | 17 | 0 | 0 |
| 123 | Residence | Non-Participating | 342399.46 | 4757481.02 | 26 | 33 | 32 | 29 | 24 | 24 | 21 | 17 | 0 | 0 |
| 124 | Residence | Non-Participating | 342489.13 | 4757480.35 | 25 | 32 | 32 | 29 | 24 | 24 | 20 | 16 | 0 | 0 |
| 128 | Residence | Non-Participating | 342473.70 | 4757539.67 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 129 | Residence | Non-Participating | 342513.46 | 4757532.58 | 25 | 31 | 31 | 29 | 23 | 24 | 19 | 15 | 0 | 0 |
| 133 | Residence | Non-Participating | 342741.73 | 4757475.43 | 28 | 33 | 38 | 32 | 26 | 27 | 22 | 14 | 0 | 0 |
| 142 | Residence | Non-Participating | 342716.49 | 4756882.62 | 36 | 40 | 44 | 40 | 33 | 35 | 31 | 26 | 8 | 0 |
| 145 | Residence | Non-Participating | 343136.64 | 4756529.58 | 34 | 38 | 42 | 38 | 32 | 33 | 29 | 22 | 2 | 0 |
| 146 | Residence | Non-Participating | 344642.32 | 4758207.04 | 16 | 26 | 30 | 23 | 17 | 17 | 9 | 0 | 0 | 0 |
| 149 | Residence | Non-Participating | 344792.46 | 4758401.18 | 15 | 27 | 29 | 22 | 16 | 16 | 8 | 0 | 0 | 0 |
| 151 | Residence | Non-Participating | 346521.98 | 4759098.27 | 6 | 21 | 20 | 15 | 8 | 6 | 0 | 0 | 0 | 0 |
| 152 | Residence | Non-Participating | 346557.28 | 4758716.53 | 6 | 17 | 17 | 16 | 8 | 6 | 0 | 0 | 0 | 0 |
| 153 | Residence | Non-Participating | 346504.64 | 4758783.62 | 7 | 22 | 21 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 156 | Residence | Non-Participating | 346539.42 | 4758332.47 | 9 | 23 | 22 | 17 | 9 | 8 | 1 | 0 | 0 | 0 |
| 157 | Residence | Non-Participating | 346592.41 | 4758325.57 | 8 | 22 | 21 | 16 | 9 | 8 | 1 | 0 | 0 | 0 |
| 160 | Residence | Non-Participating | 346591.16 | 4758172.59 | 8 | 19 | 18 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 161 | Residence | Non-Participating | 346606.73 | 4758103.30 | 10 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 162 | Residence | Non-Participating | 346565.18 | 4758049.69 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 163 | Residence | Non-Participating | 346607.46 | 4758008.61 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 168 | Residence | Non-Participating | 346602.85 | 4757937.68 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 169 | Residence | Non-Participating | 346566.60 | 4757897.83 | 11 | 24 | 23 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 170 | Residence | Non-Participating | 346559.53 | 4757870.26 | 10 | 22 | 21 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 172 | Residence | Non-Participating | 346671.41 | 4758021.25 | 10 | 24 | 22 | 17 | 10 | 9 | 4 | 0 | 0 | 0 |
| 173 | Residence | Non-Participating | 346755.53 | 4758062.22 | 9 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 174 | Residence | Non-Participating | 346756.52 | 4757994.72 | 10 | 24 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 179 | Residence | Non-Participating | 346891.87 | 4757934.76 | 8 | 21 | 20 | 16 | 9 | 8 | 1 | 0 | 0 | 0 |
| 181 | Residence | Non-Participating | 346872.09 | 4758113.74 | 7 | 16 | 17 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 182 | Residence | Non-Participating | 346979.66 | 4758080.24 | 9 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 183 | Residence | Non-Participating | 346989.91 | 4758144.18 | 9 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 186 | Residence | Non-Participating | 347183.04 | 4758019.17 | 9 | 24 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 190 | Residence | Non-Participating | 346525.09 | 4757819.54 | 10 | 23 | 22 | 17 | 10 | 10 | 3 | 0 | 0 | 0 |
| 191 | Residence | Non-Participating | 346621.38 | 4757704.92 | 11 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 192 | Residence | Non-Participating | 346472.72 | 4757739.95 | 9 | 20 | 20 | 17 | 10 | 9 | 2 | 0 | 0 | 0 |
| 194 | Residence | Non-Participating | 346433.37 | 4757642.74 | 10 | 21 | 20 | 17 | 11 | 9 | 2 | 0 | 0 | 0 |
| 195 | Residence | Non-Participating | 346378.15 | 4757625.40 | 10 | 21 | 20 | 18 | 11 | 10 | 3 | 0 | 0 | 0 |
| 196 | Residence | Non-Participating | 346437.22 | 4757552.77 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 197 | Residence | Non-Participating | 346519.34 | 4757567.84 | 11 | 22 | 22 | 18 | 11 | 10 | 4 | 0 | 0 | 0 |
| 198 | Residence | Non-Participating | 346521.74 | 4757494.77 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 199 | Residence | Non-Participating | 346604.31 | 4757506.82 | 12 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 200 | Residence | Non-Participating | 346589.69 | 4757452.70 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 201 | Residence | Non-Participating | 346636.74 | 4757517.54 | 12 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 212 | Residence | Non-Participating | 346730.86 | 4757474.72 | 9 | 18 | 18 | 17 | 10 | 9 | 1 | 0 | 0 | 0 |
| 213 | Residence | Non-Participating | 346642.27 | 4757409.91 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 214 | Residence | Non-Participating | 346726.74 | 4757362.99 | 12 | 25 | 23 | 18 | 11 | 11 | 7 | 0 | 0 | 0 |
| 215 | Residence | Non-Participating | 346812.26 | 4757344.51 | 11 | 23 | 22 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 216 | Residence | Non-Participating | 346842.78 | 4757427.28 | 10 | 22 | 21 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 217 | Residence | Non-Participating | 347041.60 | 4757337.03 | 9 | 20 | 20 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 218 | Residence | Non-Participating | 347074.58 | 4757270.70 | 9 | 20 | 20 | 17 | 10 | 9 | 2 | 0 | 0 | 0 |
| 222 | Residence | Non-Participating | 347230.31 | 4757183.57 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 223 | Residence | Non-Participating | 346998.38 | 4757214.50 | 9 | 19 | 19 | 17 | 10 | 9 | 2 | 0 | 0 | 0 |
| 228 | Residence | Non-Participating | 347312.15 | 4757094.81 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 229 | Residence | Non-Participating | 347459.96 | 4757043.46 | 10 | 24 | 22 | 16 | 9 | 9 | 4 | 0 | 0 | 0 |
| 230 | Residence | Non-Participating | 347439.34 | 4756895.69 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 231 | Residence | Non-Participating | 347660.99 | 4756880.45 | 9 | 24 | 22 | 16 | 9 | 9 | 3 | 0 | 0 | 0 |
| 232 | Residence | Non-Participating | 346229.07 | 4757623.62 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 237 | Residence | Non-Participating | 345902.13 | 4757314.03 | 14 | 26 | 25 | 20 | 13 | 14 | 9 | 1 | 0 | 0 |
| 241 | Residence | Non-Participating | 346128.12 | 4757318.87 | 11 | 19 | 19 | 19 | 12 | 11 | 4 | 0 | 0 | 0 |
| 242 | Residence | Non-Participating | 346349.71 | 4757519.65 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 243 | Residence | Non-Participating | 345816.59 | 4757514.34 | 14 | 26 | 25 | 20 | 13 | 14 | 9 | 0 | 0 | 0 |
| 249 | Residence | Non-Participating | 345585.17 | 4757516.19 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 250 | Residence | Non-Participating | 345628.03 | 4757439.09 | 14 | 23 | 23 | 20 | 13 | 13 | 8 | 0 | 0 | 0 |
| 255 | Residence | Non-Participating | 344718.78 | 4757614.35 | 14 | 22 | 22 | 22 | 15 | 14 | 6 | 0 | 0 | 0 |
| 258 | Residence | Non-Participating | 344740.44 | 4757226.66 | 17 | 28 | 27 | 23 | 17 | 17 | 11 | 2 | 0 | 0 |
| 263 | Residence | Non-Participating | 344787.54 | 4757053.79 | 20 | 31 | 30 | 23 | 17 | 19 | 15 | 9 | 0 | 0 |
| 268 | Residence | Non-Participating | 344758.61 | 4757174.89 | 18 | 30 | 29 | 23 | 17 | 18 | 13 | 4 | 0 | 0 |
| 269 | Residence | Non-Participating | 344837.52 | 4756846.37 | 21 | 32 | 30 | 24 | 18 | 20 | 16 | 11 | 0 | 0 |
| 270 | Residence | Non-Participating | 344896.85 | 4756814.53 | 22 | 32 | 31 | 24 | 18 | 20 | 17 | 13 | 0 | 0 |
| 273 | Residence | Non-Participating | 344917.15 | 4756594.47 | 24 | 33 | 32 | 24 | 19 | 21 | 19 | 16 | 0 | 0 |
| 278 | Residence | Non-Participating | 344920.44 | 4756448.96 | 25 | 34 | 32 | 25 | 19 | 22 | 21 | 19 | 0 | 0 |
| 285 | Residence | Non-Participating | 344915.09 | 4756234.51 | 28 | 35 | 34 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 286 | Residence | Non-Participating | 344804.05 | 4755978.89 | 30 | 36 | 35 | 29 | 23 | 26 | 25 | 26 | 6 | 0 |
| 287 | Residence | Non-Participating | 344824.92 | 4755875.80 | 33 | 38 | 37 | 31 | 24 | 28 | 28 | 29 | 12 | 0 |
| 296 | Residence | Non-Participating | 344759.06 | 4755822.48 | 32 | 38 | 37 | 31 | 25 | 28 | 27 | 28 | 11 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 297 | Residence | Non-Participating | 344880.76 | 4755539.53 | 38 | 42 | 41 | 35 | 28 | 33 | 33 | 35 | 20 | 0 |
| 300 | Residence | Non-Participating | 344887.97 | 4755337.56 | 34 | 39 | 38 | 32 | 25 | 29 | 29 | 30 | 13 | 0 |
| 301 | Residence | Non-Participating | 344832.24 | 4755261.10 | 33 | 39 | 38 | 31 | 24 | 28 | 28 | 28 | 11 | 0 |
| 306 | Residence | Non-Participating | 344854.42 | 4754809.39 | 28 | 36 | 35 | 27 | 21 | 25 | 24 | 23 | 0 | 0 |
| 307 | Residence | Non-Participating | 344729.29 | 4754432.85 | 25 | 34 | 33 | 26 | 20 | 23 | 21 | 19 | 0 | 0 |
| 311 | Residence | Non-Participating | 344777.42 | 4754209.65 | 20 | 26 | 25 | 22 | 17 | 18 | 14 | 12 | 0 | 0 |
| 312 | Residence | Non-Participating | 344793.06 | 4754267.19 | 20 | 26 | 25 | 23 | 18 | 19 | 15 | 13 | 0 | 0 |
| 313 | Residence | Non-Participating | 344860.89 | 4754191.95 | 20 | 25 | 25 | 23 | 18 | 19 | 15 | 13 | 0 | 0 |
| 314 | Residence | Non-Participating | 344933.89 | 4754203.16 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 315 | Residence | Non-Participating | 344696.60 | 4754138.38 | 18 | 24 | 23 | 22 | 17 | 17 | 13 | 10 | 0 | 0 |
| 316 | Residence | Non-Participating | 344604.51 | 4754158.21 | 18 | 23 | 23 | 22 | 16 | 17 | 12 | 8 | 0 | 0 |
| 317 | Residence | Non-Participating | 344551.25 | 4754171.02 | 18 | 25 | 24 | 22 | 16 | 17 | 12 | 8 | 0 | 0 |
| 323 | Residence | Non-Participating | 344676.10 | 4754061.41 | 18 | 23 | 23 | 22 | 16 | 17 | 12 | 9 | 0 | 0 |
| 324 | Residence | Non-Participating | 344573.74 | 4753714.59 | 15 | 22 | 21 | 20 | 15 | 14 | 9 | 3 | 0 | 0 |
| 327 | Residence | Non-Participating | 344605.69 | 4753468.08 | 14 | 21 | 21 | 20 | 14 | 13 | 7 | 1 | 0 | 0 |
| 333 | Residence | Non-Participating | 344965.25 | 4754161.95 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 334 | Residence | Non-Participating | 345067.43 | 4754185.46 | 23 | 27 | 26 | 24 | 19 | 21 | 17 | 17 | 0 | 0 |
| 335 | Residence | Non-Participating | 345005.86 | 4754085.14 | 21 | 26 | 25 | 23 | 18 | 19 | 15 | 14 | 0 | 0 |
| 336 | Residence | Non-Participating | 345113.64 | 4754045.34 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 337 | Residence | Non-Participating | 345207.01 | 4754096.21 | 23 | 27 | 26 | 24 | 19 | 21 | 18 | 17 | 0 | 0 |
| 342 | Residence | Non-Participating | 345122.61 | 4754187.44 | 29 | 35 | 35 | 28 | 21 | 25 | 24 | 25 | 5 | 0 |
| 343 | Residence | Non-Participating | 345309.01 | 4753990.29 | 22 | 25 | 24 | 23 | 18 | 19 | 16 | 16 | 0 | 0 |
| 344 | Residence | Non-Participating | 345350.76 | 4753974.15 | 22 | 25 | 24 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 345 | Residence | Non-Participating | 345389.85 | 4753977.44 | 22 | 25 | 24 | 23 | 18 | 19 | 16 | 16 | 0 | 0 |
| 347 | Residence | Non-Participating | 345451.90 | 4754063.15 | 24 | 27 | 25 | 24 | 19 | 21 | 18 | 18 | 0 | 0 |
| 357 | Residence | Non-Participating | 345730.74 | 4753832.88 | 22 | 29 | 28 | 22 | 16 | 19 | 18 | 16 | 0 | 0 |
| 358 | Residence | Non-Participating | 345740.37 | 4753990.99 | 25 | 31 | 29 | 24 | 18 | 21 | 20 | 20 | 0 | 0 |
| 359 | Residence | Non-Participating | 345810.43 | 4753913.62 | 23 | 30 | 28 | 22 | 17 | 20 | 18 | 18 | 0 | 0 |
| 360 | Residence | Non-Participating | 345887.62 | 4753894.04 | 22 | 29 | 28 | 22 | 16 | 19 | 18 | 16 | 0 | 0 |
| 361 | Residence | Non-Participating | 345954.47 | 4753874.15 | 21 | 28 | 27 | 21 | 16 | 18 | 17 | 15 | 0 | 0 |
| 365 | Residence | Non-Participating | 346020.19 | 4753784.54 | 20 | 27 | 26 | 20 | 15 | 17 | 15 | 13 | 0 | 0 |
| 366 | Residence | Non-Participating | 346081.11 | 4753760.18 | 19 | 27 | 26 | 20 | 14 | 17 | 15 | 12 | 0 | 0 |
| 367 | Residence | Non-Participating | 346197.66 | 4753724.02 | 19 | 28 | 27 | 20 | 14 | 17 | 15 | 12 | 0 | 0 |
| 368 | Residence | Non-Participating | 346243.77 | 4753712.08 | 19 | 28 | 26 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 369 | Residence | Non-Participating | 346285.96 | 4753772.97 | 19 | 28 | 26 | 20 | 14 | 17 | 15 | 11 | 0 | 0 |
| 370 | Residence | Non-Participating | 346281.32 | 4753700.04 | 18 | 27 | 26 | 19 | 14 | 16 | 14 | 10 | 0 | 0 |
| 382 | Residence | Non-Participating | 346180.56 | 4753805.18 | 20 | 28 | 27 | 20 | 15 | 17 | 16 | 13 | 0 | 0 |
| 383 | Residence | Non-Participating | 346328.56 | 4753679.96 | 18 | 27 | 26 | 19 | 13 | 16 | 14 | 9 | 0 | 0 |
| 388 | Residence | Non-Participating | 346367.60 | 4753668.58 | 17 | 27 | 26 | 19 | 13 | 15 | 13 | 9 | 0 | 0 |
| 389 | Residence | Non-Participating | 346406.24 | 4753651.72 | 17 | 27 | 25 | 19 | 13 | 15 | 13 | 8 | 0 | 0 |
| 390 | Residence | Non-Participating | 346442.80 | 4753637.95 | 17 | 27 | 26 | 19 | 13 | 15 | 13 | 8 | 0 | 0 |
| 391 | Residence | Non-Participating | 346483.75 | 4753630.78 | 16 | 27 | 25 | 19 | 13 | 15 | 12 | 7 | 0 | 0 |
| 397 | Residence | Non-Participating | 346396.41 | 4753727.99 | 17 | 27 | 26 | 19 | 13 | 16 | 13 | 9 | 0 | 0 |
| 398 | Residence | Non-Participating | 346371.98 | 4753739.71 | 18 | 27 | 26 | 19 | 13 | 16 | 14 | 10 | 0 | 0 |
| 399 | Residence | Non-Participating | 346348.39 | 4753747.46 | 18 | 28 | 26 | 19 | 14 | 16 | 14 | 10 | 0 | 0 |
| 400 | Residence | Non-Participating | 346198.84 | 4753902.44 | 21 | 29 | 28 | 21 | 15 | 18 | 16 | 14 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 401 | Residence | Non-Participating | 346195.19 | 4753951.20 | 21 | 29 | 28 | 21 | 15 | 18 | 17 | 14 | 0 | 0 |
| 402 | Residence | Non-Participating | 346191.02 | 4754004.53 | 22 | 30 | 29 | 21 | 16 | 19 | 17 | 15 | 0 | 0 |
| 403 | Residence | Non-Participating | 346196.64 | 4754044.30 | 22 | 30 | 29 | 21 | 16 | 19 | 18 | 16 | 0 | 0 |
| 404 | Residence | Non-Participating | 346196.70 | 4754095.73 | 22 | 31 | 29 | 22 | 16 | 20 | 18 | 16 | 0 | 0 |
| 405 | Residence | Non-Participating | 346186.16 | 4754150.10 | 23 | 31 | 30 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 408 | Residence | Non-Participating | 346181.88 | 4754197.96 | 23 | 31 | 30 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 409 | Residence | Non-Participating | 346184.44 | 4754252.69 | 24 | 31 | 30 | 23 | 17 | 20 | 19 | 18 | 0 | 0 |
| 410 | Residence | Non-Participating | 346181.23 | 4754292.62 | 24 | 31 | 30 | 23 | 17 | 20 | 19 | 18 | 0 | 0 |
| 411 | Residence | Non-Participating | 346174.30 | 4754344.48 | 23 | 29 | 28 | 22 | 17 | 20 | 18 | 17 | 0 | 0 |
| 412 | Residence | Non-Participating | 346169.26 | 4754400.57 | 19 | 24 | 23 | 21 | 16 | 18 | 14 | 12 | 0 | 0 |
| 413 | Residence | Non-Participating | 346166.22 | 4754449.02 | 20 | 24 | 23 | 22 | 17 | 18 | 14 | 13 | 0 | 0 |
| 414 | Residence | Non-Participating | 346164.13 | 4754547.97 | 21 | 28 | 26 | 22 | 17 | 19 | 16 | 14 | 0 | 0 |
| 415 | Residence | Non-Participating | 346156.92 | 4754601.67 | 21 | 28 | 27 | 22 | 17 | 19 | 16 | 14 | 0 | 0 |
| 416 | Residence | Non-Participating | 346151.83 | 4754654.71 | 21 | 28 | 27 | 22 | 17 | 19 | 17 | 14 | 0 | 0 |
| 417 | Residence | Non-Participating | 346150.78 | 4754695.82 | 22 | 30 | 28 | 23 | 18 | 20 | 17 | 15 | 0 | 0 |
| 418 | Residence | Non-Participating | 346147.04 | 4754771.67 | 26 | 34 | 33 | 24 | 19 | 23 | 22 | 20 | 0 | 0 |
| 419 | Residence | Non-Participating | 346078.13 | 4754765.05 | 27 | 35 | 33 | 25 | 19 | 24 | 23 | 22 | 0 | 0 |
| 422 | Residence | Non-Participating | 345984.67 | 4754908.94 | 28 | 35 | 34 | 26 | 20 | 24 | 24 | 23 | 0 | 0 |
| 426 | Residence | Non-Participating | 346155.68 | 4754875.28 | 26 | 34 | 32 | 24 | 18 | 22 | 21 | 20 | 0 | 0 |
| 427 | Residence | Non-Participating | 346121.39 | 4754993.70 | 26 | 34 | 32 | 24 | 19 | 23 | 21 | 20 | 0 | 0 |
| 428 | Residence | Non-Participating | 346115.88 | 4755104.89 | 26 | 34 | 32 | 24 | 19 | 23 | 21 | 19 | 0 | 0 |
| 429 | Residence | Non-Participating | 346035.86 | 4755267.69 | 27 | 34 | 33 | 25 | 19 | 23 | 22 | 21 | 0 | 0 |
| 430 | Residence | Non-Participating | 346097.46 | 4755306.40 | 26 | 34 | 32 | 24 | 19 | 23 | 22 | 20 | 0 | 0 |
| 434 | Residence | Non-Participating | 346048.83 | 4755180.71 | 26 | 34 | 33 | 25 | 19 | 23 | 22 | 20 | 0 | 0 |
| 435 | Residence | Non-Participating | 346019.10 | 4755476.78 | 28 | 35 | 33 | 26 | 20 | 24 | 23 | 22 | 0 | 0 |
| 440 | Residence | Non-Participating | 346128.92 | 4756573.04 | 20 | 31 | 29 | 21 | 16 | 18 | 16 | 12 | 0 | 0 |
| 441 | Residence | Non-Participating | 346137.14 | 4756621.88 | 20 | 30 | 28 | 21 | 15 | 18 | 16 | 11 | 0 | 0 |
| 442 | Residence | Non-Participating | 346143.75 | 4756649.45 | 19 | 30 | 28 | 21 | 15 | 18 | 15 | 11 | 0 | 0 |
| 443 | Residence | Non-Participating | 346150.78 | 4756683.40 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 10 | 0 | 0 |
| 444 | Residence | Non-Participating | 346171.67 | 4756774.61 | 18 | 28 | 27 | 20 | 14 | 16 | 14 | 8 | 0 | 0 |
| 445 | Residence | Non-Participating | 346166.51 | 4756807.58 | 17 | 28 | 27 | 20 | 14 | 16 | 13 | 8 | 0 | 0 |
| 446 | Residence | Non-Participating | 346206.66 | 4756854.91 | 17 | 28 | 26 | 20 | 14 | 16 | 13 | 7 | 0 | 0 |
| 449 | Residence | Non-Participating | 346144.95 | 4756971.71 | 16 | 27 | 26 | 20 | 14 | 15 | 12 | 6 | 0 | 0 |
| 450 | Residence | Non-Participating | 346929.93 | 4757155.66 | 13 | 26 | 25 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 451 | Residence | Non-Participating | 346993.73 | 4757085.07 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 452 | Residence | Non-Participating | 346981.93 | 4757153.16 | 13 | 26 | 25 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 455 | Residence | Non-Participating | 347013.28 | 4757024.14 | 12 | 25 | 23 | 17 | 11 | 11 | 6 | 0 | 0 | 0 |
| 456 | Residence | Non-Participating | 346935.24 | 4757033.22 | 12 | 24 | 23 | 18 | 11 | 11 | 7 | 0 | 0 | 0 |
| 457 | Residence | Non-Participating | 346952.92 | 4756970.50 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 460 | Residence | Non-Participating | 346951.26 | 4756882.27 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 461 | Residence | Non-Participating | 347009.07 | 4756833.10 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 462 | Residence | Non-Participating | 346958.22 | 4756799.36 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 463 | Residence | Non-Participating | 347013.15 | 4756775.20 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 467 | Residence | Non-Participating | 346957.23 | 4756843.81 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 468 | Residence | Non-Participating | 346961.55 | 4756701.61 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 469 | Residence | Non-Participating | 346920.15 | 4756765.69 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 470 | Residence | Non-Participating | 347014.45 | 4756650.09 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 471 | Residence | Non-Participating | 346970.46 | 4756641.49 | 13 | 25 | 24 | 18 | 12 | 12 | 8 | 0 | 0 | 0 |
| 474 | Residence | Non-Participating | 347015.82 | 4756529.25 | 13 | 25 | 24 | 18 | 12 | 13 | 8 | 0 | 0 | 0 |
| 476 | Residence | Non-Participating | 347005.28 | 4756377.71 | 15 | 27 | 26 | 18 | 12 | 14 | 11 | 3 | 0 | 0 |
| 477 | Residence | Non-Participating | 347073.65 | 4756357.53 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 481 | Residence | Non-Participating | 347019.94 | 4756308.48 | 15 | 28 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 482 | Residence | Non-Participating | 347169.18 | 4756279.77 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 485 | Residence | Non-Participating | 347016.30 | 4756228.89 | 16 | 28 | 26 | 19 | 12 | 15 | 11 | 4 | 0 | 0 |
| 486 | Residence | Non-Participating | 347088.40 | 4756084.47 | 15 | 28 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 487 | Residence | Non-Participating | 347160.04 | 4756091.04 | 12 | 24 | 23 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 488 | Residence | Non-Participating | 347176.15 | 4755976.91 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 2 | 0 | 0 |
| 489 | Residence | Non-Participating | 347241.36 | 4755981.47 | 14 | 26 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 490 | Residence | Non-Participating | 347235.44 | 4756070.75 | 14 | 27 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 494 | Residence | Non-Participating | 347176.25 | 4756030.78 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 496 | Residence | Non-Participating | 347156.25 | 4755634.15 | 14 | 26 | 25 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 497 | Residence | Non-Participating | 347146.49 | 4755581.55 | 15 | 26 | 25 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 500 | Residence | Non-Participating | 347162.32 | 4755274.48 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 501 | Residence | Non-Participating | 347164.81 | 4755229.39 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 502 | Residence | Non-Participating | 347163.47 | 4755174.03 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 503 | Residence | Non-Participating | 347201.38 | 4755070.15 | 16 | 28 | 26 | 18 | 12 | 15 | 11 | 4 | 0 | 0 |
| 507 | Residence | Non-Participating | 347084.71 | 4755083.13 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 5 | 0 | 0 |
| 508 | Residence | Non-Participating | 347347.94 | 4754602.15 | 14 | 26 | 25 | 17 | 11 | 13 | 9 | 0 | 0 | 0 |
| 512 | Residence | Non-Participating | 344404.92 | 4754273.26 | 20 | 29 | 31 | 24 | 18 | 19 | 15 | 9 | 0 | 0 |
| 513 | Residence | Non-Participating | 344387.12 | 4754211.77 | 20 | 29 | 31 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 514 | Residence | Non-Participating | 344471.29 | 4754186.89 | 19 | 27 | 30 | 24 | 18 | 18 | 13 | 7 | 0 | 0 |
| 517 | Residence | Non-Participating | 344099.18 | 4754172.97 | 19 | 29 | 31 | 24 | 18 | 19 | 14 | 6 | 0 | 0 |
| 518 | Residence | Non-Participating | 343535.74 | 4754428.47 | 20 | 29 | 28 | 24 | 18 | 19 | 15 | 11 | 0 | 0 |
| 519 | Residence | Non-Participating | 343457.04 | 4754466.09 | 21 | 29 | 28 | 24 | 19 | 20 | 16 | 12 | 0 | 0 |
| 520 | Residence | Non-Participating | 343443.38 | 4754574.30 | 22 | 30 | 29 | 25 | 19 | 20 | 17 | 13 | 0 | 0 |
| 521 | Residence | Non-Participating | 343707.60 | 4754439.03 | 21 | 30 | 32 | 26 | 20 | 21 | 16 | 9 | 0 | 0 |
| 525 | Residence | Non-Participating | 343338.42 | 4754581.03 | 23 | 30 | 29 | 25 | 20 | 21 | 18 | 15 | 0 | 0 |
| 526 | Residence | Non-Participating | 343277.64 | 4754585.97 | 23 | 30 | 30 | 25 | 20 | 21 | 18 | 16 | 0 | 0 |
| 527 | Residence | Non-Participating | 343244.44 | 4754590.40 | 23 | 31 | 30 | 26 | 20 | 21 | 19 | 16 | 0 | 0 |
| 528 | Residence | Non-Participating | 343215.99 | 4754594.74 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 534 | Residence | Non-Participating | 343124.87 | 4754604.54 | 25 | 32 | 31 | 26 | 21 | 23 | 20 | 19 | 0 | 0 |
| 535 | Residence | Non-Participating | 343084.09 | 4754610.54 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 20 | 0 | 0 |
| 536 | Residence | Non-Participating | 343071.82 | 4754640.73 | 26 | 33 | 31 | 27 | 21 | 23 | 21 | 20 | 0 | 0 |
| 537 | Residence | Non-Participating | 343071.06 | 4754675.93 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 538 | Residence | Non-Participating | 343074.43 | 4754703.45 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 539 | Residence | Non-Participating | 343012.65 | 4754629.48 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 540 | Residence | Non-Participating | 343009.26 | 4754702.30 | 28 | 33 | 32 | 28 | 22 | 24 | 22 | 22 | 2 | 0 |
| 541 | Residence | Non-Participating | 343013.80 | 4754539.11 | 26 | 33 | 31 | 26 | 21 | 23 | 21 | 20 | 0 | 0 |
| 542 | Residence | Non-Participating | 343016.27 | 4754468.21 | 25 | 31 | 30 | 26 | 20 | 22 | 20 | 18 | 0 | 0 |
| 543 | Residence | Non-Participating | 343016.09 | 4754408.30 | 22 | 28 | 27 | 25 | 20 | 20 | 16 | 13 | 0 | 0 |
| 544 | Residence | Non-Participating | 343097.49 | 4754362.54 | 21 | 27 | 27 | 25 | 19 | 20 | 15 | 12 | 0 | 0 |
| 545 | Residence | Non-Participating | 343027.72 | 4754318.68 | 23 | 30 | 29 | 25 | 19 | 21 | 18 | 15 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 546 | Residence | Non-Participating | 343034.93 | 4754222.02 | 23 | 30 | 29 | 25 | 19 | 21 | 18 | 16 | 0 | 0 |
| 551 | Residence | Non-Participating | 343162.81 | 4754144.48 | 22 | 30 | 29 | 24 | 18 | 20 | 17 | 14 | 0 | 0 |
| 552 | Residence | Non-Participating | 343149.95 | 4754092.41 | 21 | 29 | 28 | 24 | 18 | 19 | 17 | 13 | 0 | 0 |
| 554 | Residence | Non-Participating | 343236.24 | 4753927.68 | 20 | 28 | 27 | 23 | 17 | 18 | 15 | 11 | 0 | 0 |
| 555 | Residence | Non-Participating | 343297.72 | 4753758.19 | 18 | 27 | 26 | 22 | 16 | 17 | 14 | 8 | 0 | 0 |
| 560 | Residence | Non-Participating | 343275.30 | 4753653.05 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 561 | Residence | Non-Participating | 343310.55 | 4753606.26 | 17 | 27 | 26 | 21 | 16 | 16 | 13 | 7 | 0 | 0 |
| 562 | Residence | Non-Participating | 343098.49 | 4753657.80 | 19 | 28 | 27 | 22 | 16 | 17 | 14 | 10 | 0 | 0 |
| 563 | Residence | Non-Participating | 343140.65 | 4753791.71 | 19 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 570 | Residence | Non-Participating | 343124.05 | 4753523.91 | 18 | 27 | 26 | 21 | 16 | 17 | 13 | 8 | 0 | 0 |
| 571 | Residence | Non-Participating | 343063.67 | 4753517.74 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 9 | 0 | 0 |
| 574 | Residence | Non-Participating | 342820.57 | 4753504.67 | 19 | 28 | 27 | 22 | 16 | 17 | 15 | 11 | 0 | 0 |
| 575 | Residence | Non-Participating | 342754.14 | 4753500.13 | 19 | 28 | 27 | 22 | 16 | 18 | 15 | 11 | 0 | 0 |
| 576 | Residence | Non-Participating | 342682.28 | 4753482.31 | 20 | 28 | 27 | 22 | 16 | 18 | 15 | 12 | 0 | 0 |
| 577 | Residence | Non-Participating | 342609.58 | 4753500.42 | 20 | 29 | 27 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 581 | Residence | Non-Participating | 342502.20 | 4753486.62 | 20 | 29 | 28 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 582 | Residence | Non-Participating | 342445.78 | 4753561.33 | 21 | 29 | 28 | 23 | 17 | 19 | 17 | 15 | 0 | 0 |
| 583 | Residence | Non-Participating | 342399.55 | 4753578.94 | 22 | 30 | 28 | 23 | 17 | 19 | 17 | 15 | 0 | 0 |
| 586 | Residence | Non-Participating | 342514.18 | 4753209.47 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 587 | Residence | Non-Participating | 342310.40 | 4753788.46 | 25 | 32 | 31 | 25 | 19 | 22 | 21 | 20 | 0 | 0 |
| 590 | Residence | Non-Participating | 342058.63 | 4753764.04 | 24 | 31 | 30 | 24 | 18 | 21 | 20 | 19 | 0 | 0 |
| 591 | Residence | Non-Participating | 342071.04 | 4753733.31 | 24 | 31 | 30 | 24 | 18 | 21 | 19 | 18 | 0 | 0 |
| 592 | Residence | Non-Participating | 341356.23 | 4753705.45 | 20 | 30 | 29 | 22 | 16 | 18 | 15 | 11 | 0 | 0 |
| 593 | Residence | Non-Participating | 341309.23 | 4753739.84 | 19 | 29 | 27 | 22 | 16 | 17 | 15 | 10 | 0 | 0 |
| 594 | Residence | Non-Participating | 341439.04 | 4753643.03 | 20 | 30 | 29 | 22 | 16 | 18 | 16 | 11 | 0 | 0 |
| 595 | Residence | Non-Participating | 341399.75 | 4753636.22 | 19 | 30 | 28 | 22 | 16 | 18 | 15 | 10 | 0 | 0 |
| 598 | Residence | Non-Participating | 341470.67 | 4753649.79 | 20 | 30 | 28 | 22 | 16 | 18 | 16 | 11 | 0 | 0 |
| 599 | Residence | Non-Participating | 341337.30 | 4753510.68 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 8 | 0 | 0 |
| 600 | Residence | Non-Participating | 341338.75 | 4753459.32 | 18 | 29 | 27 | 21 | 15 | 17 | 14 | 8 | 0 | 0 |
| 601 | Residence | Non-Participating | 341438.06 | 4753473.45 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 9 | 0 | 0 |
| 602 | Residence | Non-Participating | 341444.86 | 4753401.76 | 18 | 28 | 27 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 603 | Residence | Non-Participating | 341442.14 | 4753337.49 | 17 | 28 | 27 | 21 | 15 | 16 | 13 | 7 | 0 | 0 |
| 604 | Residence | Non-Participating | 341351.81 | 4753334.96 | 17 | 28 | 27 | 21 | 14 | 16 | 13 | 6 | 0 | 0 |
| 609 | Residence | Non-Participating | 341379.72 | 4753277.97 | 17 | 28 | 26 | 20 | 14 | 16 | 12 | 6 | 0 | 0 |
| 610 | Residence | Non-Participating | 341257.60 | 4753624.21 | 16 | 26 | 25 | 21 | 15 | 15 | 11 | 5 | 0 | 0 |
| 611 | Residence | Non-Participating | 341194.60 | 4753614.22 | 16 | 25 | 25 | 21 | 15 | 15 | 11 | 4 | 0 | 0 |
| 612 | Residence | Non-Participating | 341196.00 | 4753672.48 | 14 | 21 | 21 | 21 | 15 | 14 | 8 | 1 | 0 | 0 |
| 616 | Residence | Non-Participating | 341302.01 | 4753641.19 | 16 | 25 | 24 | 21 | 15 | 15 | 11 | 5 | 0 | 0 |
| 617 | Residence | Non-Participating | 342040.12 | 4753992.66 | 29 | 34 | 33 | 27 | 21 | 24 | 24 | 24 | 4 | 0 |
| 622 | Residence | Non-Participating | 342014.30 | 4754532.55 | 35 | 40 | 38 | 32 | 25 | 30 | 30 | 31 | 15 | 0 |
| 623 | Residence | Non-Participating | 341943.75 | 4754530.12 | 33 | 39 | 37 | 31 | 24 | 28 | 28 | 29 | 11 | 0 |
| 624 | Residence | Non-Participating | 342047.98 | 4754920.00 | 35 | 40 | 39 | 33 | 26 | 30 | 30 | 31 | 12 | 0 |
| 628 | Residence | Non-Participating | 342773.26 | 4754332.07 | 27 | 33 | 32 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 629 | Residence | Non-Participating | 342469.51 | 4754577.07 | 36 | 40 | 39 | 33 | 26 | 30 | 30 | 32 | 16 | 0 |
| 630 | Residence | Non-Participating | 342529.76 | 4754611.60 | 33 | 38 | 37 | 31 | 25 | 29 | 28 | 29 | 12 | 0 |
| 631 | Residence | Non-Participating | 342526.59 | 4754563.36 | 34 | 39 | 39 | 32 | 26 | 30 | 29 | 30 | 13 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 632 | Residence | Non-Participating | 342562.68 | 4754561.77 | 33 | 38 | 38 | 31 | 25 | 29 | 27 | 28 | 10 | 0 |
| 633 | Residence | Non-Participating | 342706.02 | 4754578.47 | 32 | 39 | 38 | 31 | 25 | 28 | 27 | 27 | 7 | 0 |
| 634 | Residence | Non-Participating | 342749.65 | 4754593.83 | 30 | 36 | 36 | 30 | 24 | 27 | 25 | 25 | 5 | 0 |
| 636 | Residence | Non-Participating | 342644.76 | 4754516.63 | 32 | 38 | 36 | 30 | 24 | 27 | 27 | 27 | 7 | 0 |
| 645 | Residence | Non-Participating | 342719.56 | 4754729.91 | 34 | 39 | 39 | 32 | 26 | 30 | 29 | 30 | 13 | 0 |
| 646 | Residence | Non-Participating | 342887.16 | 4754714.91 | 30 | 35 | 33 | 29 | 23 | 26 | 24 | 25 | 7 | 0 |
| 647 | Residence | Non-Participating | 342939.94 | 4754694.55 | 29 | 34 | 33 | 28 | 22 | 25 | 23 | 24 | 4 | 0 |
| 648 | Residence | Non-Participating | 342891.40 | 4754571.80 | 27 | 33 | 32 | 27 | 22 | 24 | 22 | 22 | 1 | 0 |
| 649 | Residence | Non-Participating | 342952.70 | 4754559.09 | 26 | 33 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 650 | Residence | Non-Participating | 343116.86 | 4754885.43 | 27 | 33 | 32 | 28 | 22 | 24 | 22 | 22 | 2 | 0 |
| 653 | Residence | Non-Participating | 343141.72 | 4755054.71 | 27 | 33 | 32 | 28 | 23 | 24 | 22 | 22 | 1 | 0 |
| 658 | Residence | Non-Participating | 343029.48 | 4755184.14 | 26 | 31 | 30 | 28 | 23 | 24 | 20 | 19 | 0 | 0 |
| 659 | Residence | Non-Participating | 342999.10 | 4755536.86 | 30 | 35 | 38 | 33 | 27 | 29 | 25 | 21 | 0 | 0 |
| 661 | Residence | Non-Participating | 343103.77 | 4755523.33 | 29 | 34 | 38 | 32 | 27 | 28 | 24 | 20 | 0 | 0 |
| 662 | Residence | Non-Participating | 343081.29 | 4755633.55 | 30 | 35 | 39 | 33 | 28 | 29 | 25 | 22 | 1 | 0 |
| 663 | Residence | Non-Participating | 343078.86 | 4755673.18 | 31 | 36 | 39 | 34 | 28 | 30 | 26 | 23 | 3 | 0 |
| 667 | Residence | Non-Participating | 343072.82 | 4755751.60 | 30 | 35 | 34 | 32 | 26 | 28 | 25 | 25 | 7 | 0 |
| 670 | Residence | Non-Participating | 343235.14 | 4755803.27 | 29 | 34 | 34 | 31 | 26 | 27 | 24 | 24 | 5 | 0 |
| 671 | Residence | Non-Participating | 343397.28 | 4755811.31 | 25 | 30 | 30 | 29 | 24 | 24 | 19 | 15 | 0 | 0 |
| 672 | Residence | Non-Participating | 343453.13 | 4755811.37 | 24 | 27 | 28 | 29 | 24 | 23 | 18 | 13 | 0 | 0 |
| 676 | Residence | Non-Participating | 343130.78 | 4756236.51 | 36 | 40 | 43 | 38 | 32 | 34 | 31 | 30 | 14 | 0 |
| 678 | Residence | Non-Participating | 342725.94 | 4755775.42 | 33 | 37 | 41 | 36 | 30 | 32 | 28 | 25 | 5 | 0 |
| 680 | Residence | Non-Participating | 342347.15 | 4755798.80 | 34 | 38 | 38 | 35 | 29 | 31 | 29 | 29 | 11 | 0 |
| 681 | Residence | Non-Participating | 342015.80 | 4756024.33 | 37 | 41 | 40 | 36 | 30 | 33 | 32 | 33 | 19 | 0 |
| 682 | Residence | Non-Participating | 341971.91 | 4756025.45 | 36 | 40 | 39 | 35 | 29 | 31 | 30 | 31 | 16 | 0 |
| 684 | Residence | Non-Participating | 341895.31 | 4756054.63 | 34 | 39 | 38 | 34 | 28 | 30 | 28 | 29 | 11 | 0 |
| 685 | Residence | Non-Participating | 341976.47 | 4756114.35 | 36 | 40 | 39 | 35 | 30 | 32 | 30 | 31 | 16 | 0 |
| 686 | Residence | Non-Participating | 341925.51 | 4756139.30 | 34 | 39 | 38 | 35 | 29 | 31 | 29 | 30 | 13 | 0 |
| 687 | Residence | Non-Participating | 341842.41 | 4756053.60 | 33 | 38 | 37 | 33 | 28 | 30 | 28 | 28 | 8 | 0 |
| 688 | Residence | Non-Participating | 341811.69 | 4756079.03 | 32 | 38 | 37 | 33 | 27 | 29 | 27 | 27 | 7 | 0 |
| 692 | Residence | Non-Participating | 341713.10 | 4756137.52 | 32 | 38 | 37 | 32 | 27 | 29 | 27 | 26 | 4 | 0 |
| 693 | Residence | Non-Participating | 341687.22 | 4756159.39 | 32 | 37 | 36 | 32 | 27 | 29 | 27 | 26 | 4 | 0 |
| 694 | Residence | Non-Participating | 341147.15 | 4756479.88 | 23 | 29 | 29 | 28 | 22 | 22 | 18 | 14 | 0 | 0 |
| 695 | Residence | Non-Participating | 340919.85 | 4756438.80 | 21 | 29 | 29 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 699 | Residence | Non-Participating | 340777.11 | 4756057.04 | 19 | 25 | 25 | 25 | 19 | 19 | 12 | 5 | 0 | 0 |
| 700 | Residence | Non-Participating | 340833.15 | 4755929.69 | 20 | 28 | 28 | 25 | 19 | 20 | 15 | 9 | 0 | 0 |
| 702 | Residence | Non-Participating | 340836.29 | 4755851.22 | 21 | 30 | 29 | 25 | 20 | 20 | 16 | 11 | 0 | 0 |
| 703 | Residence | Non-Participating | 340857.19 | 4755782.40 | 22 | 31 | 30 | 25 | 20 | 21 | 17 | 12 | 0 | 0 |
| 708 | Residence | Non-Participating | 340848.28 | 4755660.87 | 22 | 31 | 30 | 25 | 19 | 21 | 17 | 12 | 0 | 0 |
| 709 | Residence | Non-Participating | 340660.75 | 4755614.99 | 20 | 29 | 28 | 24 | 18 | 19 | 15 | 8 | 0 | 0 |
| 710 | Residence | Non-Participating | 340737.38 | 4755756.28 | 21 | 30 | 30 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 712 | Residence | Non-Participating | 340853.24 | 4755586.80 | 21 | 30 | 29 | 25 | 19 | 20 | 17 | 11 | 0 | 0 |
| 713 | Residence | Non-Participating | 340895.37 | 4755476.50 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 714 | Residence | Non-Participating | 340657.34 | 4755479.54 | 19 | 29 | 28 | 24 | 18 | 19 | 15 | 8 | 0 | 0 |
| 717 | Residence | Non-Participating | 340835.69 | 4755406.83 | 19 | 25 | 25 | 24 | 18 | 18 | 13 | 7 | 0 | 0 |
| 718 | Residence | Non-Participating | 340799.51 | 4755400.70 | 18 | 23 | 24 | 24 | 18 | 18 | 12 | 5 | 0 | 0 |

**Table 7-5.1a_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 719 | Residence | Non-Participating | 340483.07 | 4755418.55 | 18 | 28 | 27 | 23 | 17 | 17 | 13 | 5 | 0 | 0 |
| 721 | Residence | Non-Participating | 340319.93 | 4755433.81 | 16 | 23 | 23 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 725 | Residence | Non-Participating | 340947.58 | 4755303.31 | 19 | 24 | 25 | 24 | 19 | 19 | 13 | 7 | 0 | 0 |
| 726 | Residence | Non-Participating | 340845.43 | 4755264.20 | 19 | 25 | 25 | 24 | 18 | 18 | 13 | 7 | 0 | 0 |
| 727 | Residence | Non-Participating | 341021.28 | 4755411.72 | 20 | 26 | 26 | 25 | 19 | 20 | 14 | 9 | 0 | 0 |
| 731 | Residence | Non-Participating | 341563.21 | 4755064.92 | 30 | 36 | 35 | 29 | 23 | 26 | 25 | 25 | 5 | 0 |
| 735 | Residence | Non-Participating | 340587.65 | 4757842.10 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 736 | Residence | Non-Participating | 340601.22 | 4757800.76 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 737 | Residence | Non-Participating | 340641.07 | 4757822.97 | 15 | 20 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 738 | Residence | Non-Participating | 340655.45 | 4757824.51 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 739 | Residence | Non-Participating | 340564.51 | 4757808.55 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 740 | Residence | Non-Participating | 340572.27 | 4757811.57 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 741 | Residence | Non-Participating | 340592.35 | 4757810.89 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 742 | Residence | Non-Participating | 340548.18 | 4757847.68 | 14 | 20 | 21 | 22 | 15 | 14 | 6 | 0 | 0 | 0 |
| 743 | Residence | Non-Participating | 340531.28 | 4757872.77 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 744 | Residence | Non-Participating | 340561.92 | 4757727.17 | 18 | 26 | 30 | 24 | 18 | 18 | 11 | 0 | 0 | 0 |
| 745 | Residence | Non-Participating | 340565.12 | 4757712.61 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 746 | Residence | Non-Participating | 340581.48 | 4757730.88 | 18 | 26 | 31 | 24 | 18 | 18 | 12 | 0 | 0 | 0 |
| 747 | Residence | Non-Participating | 340582.38 | 4757714.86 | 18 | 26 | 31 | 25 | 18 | 19 | 12 | 0 | 0 | 0 |
| 748 | Residence | Non-Participating | 340599.16 | 4757731.61 | 18 | 27 | 31 | 25 | 18 | 19 | 12 | 0 | 0 | 0 |
| 749 | Residence | Non-Participating | 340414.94 | 4757837.76 | 17 | 26 | 30 | 24 | 17 | 17 | 10 | 0 | 0 | 0 |
| 750 | Residence | Non-Participating | 340540.49 | 4757864.59 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 751 | Residence | Non-Participating | 340512.81 | 4757846.83 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 752 | Residence | Non-Participating | 340475.37 | 4757879.87 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 753 | Residence | Non-Participating | 340548.00 | 4757645.56 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 768 | Residence | Non-Participating | 342341.76 | 4757532.57 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 769 | Residence | Non-Participating | 342421.20 | 4757565.13 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 770 | Residence | Non-Participating | 342405.20 | 4757602.83 | 24 | 32 | 31 | 28 | 23 | 23 | 19 | 15 | 0 | 0 |
| 773 | Residence | Non-Participating | 340838.73 | 4756118.86 | 22 | 31 | 30 | 26 | 20 | 21 | 17 | 11 | 0 | 0 |
| 779 | Residence | Non-Participating | 341991.63 | 4753808.58 | 25 | 32 | 30 | 24 | 19 | 21 | 20 | 19 | 0 | 0 |
| 780 | Residence | Non-Participating | 341995.29 | 4753754.84 | 24 | 31 | 30 | 24 | 18 | 21 | 19 | 18 | 0 | 0 |
| 781 | Residence | Non-Participating | 341915.36 | 4753696.61 | 23 | 30 | 29 | 23 | 17 | 20 | 18 | 16 | 0 | 0 |
| 783 | Residence | Non-Participating | 343136.45 | 4754230.03 | 22 | 30 | 29 | 24 | 19 | 20 | 18 | 15 | 0 | 0 |
| 795 | Residence | Non-Participating | 346048.12 | 4755138.23 | 26 | 34 | 33 | 25 | 19 | 23 | 22 | 20 | 0 | 0 |
| 797 | Residence | Non-Participating | 347128.91 | 4756626.62 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 803 | Residence | Non-Participating | 346999.39 | 4756624.60 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 824 | Residence | Non-Participating | 341834.55 | 4756040.70 | 33 | 38 | 37 | 33 | 27 | 29 | 27 | 27 | 8 | 0 |
| 846 | Residence | Non-Participating | 341816.71 | 4753682.42 | 22 | 30 | 29 | 23 | 17 | 19 | 18 | 15 | 0 | 0 |
| 848 | Residence | Non-Participating | 344521.10 | 4755803.04 | 30 | 35 | 35 | 29 | 23 | 26 | 25 | 25 | 7 | 0 |
| 855 | Residence | Non-Participating | 341824.01 | 4755997.41 | 32 | 38 | 37 | 33 | 27 | 29 | 27 | 27 | 7 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **297** | **Residence** | **Non-Participating** | **344880.76** | **4755539.53** | **38** | **42** | **41** | **35** | **28** | **33** | **33** | **35** | **20** | **0** |
| **152** | **Residence** | **Non-Participating** | **346557.28** | **4758716.53** | **6** | **17** | **17** | **16** | **8** | **6** | **0** | **0** | **0** | **0** |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 297 | Residence | Non-Participating | 344880.76 | 4755539.53 | 38 | 42 | 41 | 35 | 28 | 33 | 33 | 35 | 20 | 0 |
| 681 | Residence | Non-Participating | 342015.80 | 4756024.33 | 37 | 41 | 40 | 36 | 30 | 33 | 32 | 33 | 19 | 0 |
| 142 | Residence | Non-Participating | 342716.49 | 4756882.62 | 36 | 40 | 44 | 40 | 33 | 35 | 31 | 26 | 8 | 0 |
| 676 | Residence | Non-Participating | 343130.78 | 4756236.51 | 36 | 40 | 43 | 38 | 32 | 34 | 31 | 30 | 14 | 0 |
| 685 | Residence | Non-Participating | 341976.47 | 4756114.35 | 36 | 40 | 39 | 35 | 30 | 32 | 30 | 31 | 16 | 0 |
| 629 | Residence | Non-Participating | 342469.51 | 4754577.07 | 36 | 40 | 39 | 33 | 26 | 30 | 30 | 32 | 16 | 0 |
| 682 | Residence | Non-Participating | 341971.91 | 4756025.45 | 36 | 40 | 39 | 35 | 29 | 31 | 30 | 31 | 16 | 0 |
| 622 | Residence | Non-Participating | 342014.30 | 4754532.55 | 35 | 40 | 38 | 32 | 25 | 30 | 30 | 31 | 15 | 0 |
| 624 | Residence | Non-Participating | 342047.98 | 4754920.00 | 35 | 40 | 39 | 33 | 26 | 30 | 30 | 31 | 12 | 0 |
| 686 | Residence | Non-Participating | 341925.51 | 4756139.30 | 34 | 39 | 38 | 35 | 29 | 31 | 29 | 30 | 13 | 0 |
| 300 | Residence | Non-Participating | 344887.97 | 4755337.56 | 34 | 39 | 38 | 32 | 25 | 29 | 29 | 30 | 13 | 0 |
| 631 | Residence | Non-Participating | 342526.59 | 4754563.36 | 34 | 39 | 39 | 32 | 26 | 30 | 29 | 30 | 13 | 0 |
| 645 | Residence | Non-Participating | 342719.56 | 4754729.91 | 34 | 39 | 39 | 32 | 26 | 30 | 29 | 30 | 13 | 0 |
| 680 | Residence | Non-Participating | 342347.15 | 4755798.80 | 34 | 38 | 38 | 35 | 29 | 31 | 29 | 29 | 11 | 0 |
| 145 | Residence | Non-Participating | 343136.64 | 4756529.58 | 34 | 38 | 42 | 38 | 32 | 33 | 29 | 22 | 2 | 0 |
| 684 | Residence | Non-Participating | 341895.31 | 4756054.63 | 34 | 39 | 38 | 34 | 28 | 30 | 28 | 29 | 11 | 0 |
| 630 | Residence | Non-Participating | 342529.76 | 4754611.60 | 33 | 38 | 37 | 31 | 25 | 29 | 28 | 29 | 12 | 0 |
| 678 | Residence | Non-Participating | 342725.94 | 4755775.42 | 33 | 37 | 41 | 36 | 30 | 32 | 28 | 25 | 5 | 0 |
| 623 | Residence | Non-Participating | 341943.75 | 4754530.12 | 33 | 39 | 37 | 31 | 24 | 28 | 28 | 29 | 11 | 0 |
| 287 | Residence | Non-Participating | 344824.92 | 4755875.80 | 33 | 38 | 37 | 31 | 24 | 28 | 28 | 29 | 12 | 0 |
| 301 | Residence | Non-Participating | 344832.24 | 4755261.10 | 33 | 39 | 38 | 31 | 24 | 28 | 28 | 28 | 11 | 0 |
| 687 | Residence | Non-Participating | 341842.41 | 4756053.60 | 33 | 38 | 37 | 33 | 28 | 30 | 28 | 28 | 8 | 0 |
| 824 | Residence | Non-Participating | 341834.55 | 4756040.70 | 33 | 38 | 37 | 33 | 27 | 29 | 27 | 27 | 8 | 0 |
| 632 | Residence | Non-Participating | 342562.68 | 4754561.77 | 33 | 38 | 38 | 31 | 25 | 29 | 27 | 28 | 10 | 0 |
| 296 | Residence | Non-Participating | 344759.06 | 4755822.48 | 32 | 38 | 37 | 31 | 25 | 28 | 27 | 28 | 11 | 0 |
| 688 | Residence | Non-Participating | 341811.69 | 4756079.03 | 32 | 38 | 37 | 33 | 27 | 29 | 27 | 27 | 7 | 0 |
| 855 | Residence | Non-Participating | 341824.01 | 4755997.41 | 32 | 38 | 37 | 33 | 27 | 29 | 27 | 27 | 7 | 0 |
| 633 | Residence | Non-Participating | 342706.02 | 4754578.47 | 32 | 39 | 38 | 31 | 25 | 28 | 27 | 27 | 7 | 0 |
| 692 | Residence | Non-Participating | 341713.10 | 4756137.52 | 32 | 38 | 37 | 32 | 27 | 29 | 27 | 26 | 4 | 0 |
| 636 | Residence | Non-Participating | 342644.76 | 4754516.63 | 32 | 38 | 36 | 30 | 24 | 27 | 27 | 27 | 7 | 0 |
| 693 | Residence | Non-Participating | 341687.22 | 4756159.39 | 32 | 37 | 36 | 32 | 27 | 29 | 27 | 26 | 4 | 0 |
| 663 | Residence | Non-Participating | 343078.86 | 4755673.18 | 31 | 36 | 39 | 34 | 28 | 30 | 26 | 23 | 3 | 0 |
| 667 | Residence | Non-Participating | 343072.82 | 4755751.60 | 30 | 35 | 34 | 32 | 26 | 28 | 25 | 25 | 7 | 0 |
| 286 | Residence | Non-Participating | 344804.05 | 4755978.89 | 30 | 36 | 35 | 29 | 23 | 26 | 25 | 26 | 6 | 0 |
| 634 | Residence | Non-Participating | 342749.65 | 4754593.83 | 30 | 36 | 36 | 30 | 24 | 27 | 25 | 25 | 5 | 0 |
| 662 | Residence | Non-Participating | 343081.29 | 4755633.55 | 30 | 35 | 39 | 33 | 28 | 29 | 25 | 22 | 1 | 0 |
| 731 | Residence | Non-Participating | 341563.21 | 4755064.92 | 30 | 36 | 35 | 29 | 23 | 26 | 25 | 25 | 5 | 0 |
| 659 | Residence | Non-Participating | 342999.10 | 4755536.86 | 30 | 35 | 38 | 33 | 27 | 29 | 25 | 21 | 0 | 0 |
| 848 | Residence | Non-Participating | 344521.10 | 4755803.04 | 30 | 35 | 35 | 29 | 23 | 26 | 25 | 25 | 7 | 0 |
| 646 | Residence | Non-Participating | 342887.16 | 4754714.91 | 30 | 35 | 33 | 29 | 23 | 26 | 24 | 25 | 7 | 0 |
| 670 | Residence | Non-Participating | 343235.14 | 4755803.27 | 29 | 34 | 34 | 31 | 26 | 27 | 24 | 24 | 5 | 0 |
| 342 | Residence | Non-Participating | 345122.61 | 4754187.44 | 29 | 35 | 35 | 28 | 21 | 25 | 24 | 25 | 5 | 0 |
| 661 | Residence | Non-Participating | 343103.77 | 4755523.33 | 29 | 34 | 38 | 32 | 27 | 28 | 24 | 20 | 0 | 0 |
| 647 | Residence | Non-Participating | 342939.94 | 4754694.55 | 29 | 34 | 33 | 28 | 22 | 25 | 23 | 24 | 4 | 0 |
| 617 | Residence | Non-Participating | 342040.12 | 4753992.66 | 29 | 34 | 33 | 27 | 21 | 24 | 24 | 24 | 4 | 0 |
| 306 | Residence | Non-Participating | 344854.42 | 4754809.39 | 28 | 36 | 35 | 27 | 21 | 25 | 24 | 23 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 422 | Residence | Non-Participating | 345984.67 | 4754908.94 | 28 | 35 | 34 | 26 | 20 | 24 | 24 | 23 | 0 | 0 |
| 109 | Residence | Non-Participating | 341951.65 | 4757450.49 | 28 | 34 | 37 | 31 | 25 | 27 | 23 | 18 | 0 | 0 |
| 435 | Residence | Non-Participating | 346019.10 | 4755476.78 | 28 | 35 | 33 | 26 | 20 | 24 | 23 | 22 | 0 | 0 |
| 285 | Residence | Non-Participating | 344915.09 | 4756234.51 | 28 | 35 | 34 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 540 | Residence | Non-Participating | 343009.26 | 4754702.30 | 28 | 33 | 32 | 28 | 22 | 24 | 22 | 22 | 2 | 0 |
| 133 | Residence | Non-Participating | 342741.73 | 4757475.43 | 28 | 33 | 38 | 32 | 26 | 27 | 22 | 14 | 0 | 0 |
| 650 | Residence | Non-Participating | 343116.86 | 4754885.43 | 27 | 33 | 32 | 28 | 22 | 24 | 22 | 22 | 2 | 0 |
| 122 | Residence | Non-Participating | 342155.76 | 4757532.88 | 27 | 34 | 37 | 31 | 25 | 27 | 22 | 17 | 0 | 0 |
| 653 | Residence | Non-Participating | 343141.72 | 4755054.71 | 27 | 33 | 32 | 28 | 23 | 24 | 22 | 22 | 1 | 0 |
| 628 | Residence | Non-Participating | 342773.26 | 4754332.07 | 27 | 33 | 32 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 648 | Residence | Non-Participating | 342891.40 | 4754571.80 | 27 | 33 | 32 | 27 | 22 | 24 | 22 | 22 | 1 | 0 |
| 419 | Residence | Non-Participating | 346078.13 | 4754765.05 | 27 | 35 | 33 | 25 | 19 | 24 | 23 | 22 | 0 | 0 |
| 429 | Residence | Non-Participating | 346035.86 | 4755267.69 | 27 | 34 | 33 | 25 | 19 | 23 | 22 | 21 | 0 | 0 |
| 538 | Residence | Non-Participating | 343074.43 | 4754703.45 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 539 | Residence | Non-Participating | 343012.65 | 4754629.48 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 105 | Residence | Non-Participating | 341814.04 | 4757521.56 | 26 | 33 | 36 | 30 | 24 | 26 | 21 | 16 | 0 | 0 |
| 649 | Residence | Non-Participating | 342952.70 | 4754559.09 | 26 | 33 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 103 | Residence | Non-Participating | 341698.26 | 4757535.20 | 26 | 34 | 36 | 30 | 24 | 25 | 21 | 16 | 0 | 0 |
| 537 | Residence | Non-Participating | 343071.06 | 4754675.93 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 21 | 0 | 0 |
| 795 | Residence | Non-Participating | 346048.12 | 4755138.23 | 26 | 34 | 33 | 25 | 19 | 23 | 22 | 20 | 0 | 0 |
| 434 | Residence | Non-Participating | 346048.83 | 4755180.71 | 26 | 34 | 33 | 25 | 19 | 23 | 22 | 20 | 0 | 0 |
| 110 | Residence | Non-Participating | 341934.64 | 4757596.93 | 26 | 33 | 36 | 30 | 24 | 26 | 21 | 15 | 0 | 0 |
| 102 | Residence | Non-Participating | 341656.56 | 4757542.28 | 26 | 34 | 36 | 29 | 24 | 25 | 21 | 16 | 0 | 0 |
| 536 | Residence | Non-Participating | 343071.82 | 4754640.73 | 26 | 33 | 31 | 27 | 21 | 23 | 21 | 20 | 0 | 0 |
| 418 | Residence | Non-Participating | 346147.04 | 4754771.67 | 26 | 34 | 33 | 24 | 19 | 23 | 22 | 20 | 0 | 0 |
| 104 | Residence | Non-Participating | 341741.26 | 4757536.39 | 26 | 33 | 36 | 30 | 24 | 25 | 21 | 15 | 0 | 0 |
| 430 | Residence | Non-Participating | 346097.46 | 4755306.40 | 26 | 34 | 32 | 24 | 19 | 23 | 22 | 20 | 0 | 0 |
| 658 | Residence | Non-Participating | 343029.48 | 4755184.14 | 26 | 31 | 30 | 28 | 23 | 24 | 20 | 19 | 0 | 0 |
| 111 | Residence | Non-Participating | 341939.66 | 4757635.22 | 26 | 33 | 36 | 30 | 24 | 25 | 21 | 15 | 0 | 0 |
| 123 | Residence | Non-Participating | 342399.46 | 4757481.02 | 26 | 33 | 32 | 29 | 24 | 24 | 21 | 17 | 0 | 0 |
| 541 | Residence | Non-Participating | 343013.80 | 4754539.11 | 26 | 33 | 31 | 26 | 21 | 23 | 21 | 20 | 0 | 0 |
| 427 | Residence | Non-Participating | 346121.39 | 4754993.70 | 26 | 34 | 32 | 24 | 19 | 23 | 21 | 20 | 0 | 0 |
| 535 | Residence | Non-Participating | 343084.09 | 4754610.54 | 26 | 32 | 31 | 27 | 21 | 23 | 21 | 20 | 0 | 0 |
| 426 | Residence | Non-Participating | 346155.68 | 4754875.28 | 26 | 34 | 32 | 24 | 18 | 22 | 21 | 20 | 0 | 0 |
| 428 | Residence | Non-Participating | 346115.88 | 4755104.89 | 26 | 34 | 32 | 24 | 19 | 23 | 21 | 19 | 0 | 0 |
| 307 | Residence | Non-Participating | 344729.29 | 4754432.85 | 25 | 34 | 33 | 26 | 20 | 23 | 21 | 19 | 0 | 0 |
| 587 | Residence | Non-Participating | 342310.40 | 4753788.46 | 25 | 32 | 31 | 25 | 19 | 22 | 21 | 20 | 0 | 0 |
| 768 | Residence | Non-Participating | 342341.76 | 4757532.57 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 124 | Residence | Non-Participating | 342489.13 | 4757480.35 | 25 | 32 | 32 | 29 | 24 | 24 | 20 | 16 | 0 | 0 |
| 278 | Residence | Non-Participating | 344920.44 | 4756448.96 | 25 | 34 | 32 | 25 | 19 | 22 | 21 | 19 | 0 | 0 |
| 534 | Residence | Non-Participating | 343124.87 | 4754604.54 | 25 | 32 | 31 | 26 | 21 | 23 | 20 | 19 | 0 | 0 |
| 358 | Residence | Non-Participating | 345740.37 | 4753990.99 | 25 | 31 | 29 | 24 | 18 | 21 | 20 | 20 | 0 | 0 |
| 128 | Residence | Non-Participating | 342473.70 | 4757539.67 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 671 | Residence | Non-Participating | 343397.28 | 4755811.31 | 25 | 30 | 30 | 29 | 24 | 24 | 19 | 15 | 0 | 0 |
| 779 | Residence | Non-Participating | 341991.63 | 4753808.58 | 25 | 32 | 30 | 24 | 19 | 21 | 20 | 19 | 0 | 0 |
| 769 | Residence | Non-Participating | 342421.20 | 4757565.13 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 129 | Residence | Non-Participating | 342513.46 | 4757532.58 | 25 | 31 | 31 | 29 | 23 | 24 | 19 | 15 | 0 | 0 |
| 542 | Residence | Non-Participating | 343016.27 | 4754468.21 | 25 | 31 | 30 | 26 | 20 | 22 | 20 | 18 | 0 | 0 |
| 590 | Residence | Non-Participating | 342058.63 | 4753764.04 | 24 | 31 | 30 | 24 | 18 | 21 | 20 | 19 | 0 | 0 |
| 770 | Residence | Non-Participating | 342405.20 | 4757602.83 | 24 | 32 | 31 | 28 | 23 | 23 | 19 | 15 | 0 | 0 |
| 115 | Residence | Non-Participating | 341933.81 | 4757841.90 | 24 | 32 | 35 | 28 | 23 | 24 | 19 | 11 | 0 | 0 |
| 591 | Residence | Non-Participating | 342071.04 | 4753733.31 | 24 | 31 | 30 | 24 | 18 | 21 | 19 | 18 | 0 | 0 |
| 672 | Residence | Non-Participating | 343453.13 | 4755811.37 | 24 | 27 | 28 | 29 | 24 | 23 | 18 | 13 | 0 | 0 |
| 780 | Residence | Non-Participating | 341995.29 | 4753754.84 | 24 | 31 | 30 | 24 | 18 | 21 | 19 | 18 | 0 | 0 |
| 116 | Residence | Non-Participating | 341927.88 | 4757876.97 | 24 | 31 | 35 | 28 | 22 | 24 | 18 | 11 | 0 | 0 |
| 528 | Residence | Non-Participating | 343215.99 | 4754594.74 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 273 | Residence | Non-Participating | 344917.15 | 4756594.47 | 24 | 33 | 32 | 24 | 19 | 21 | 19 | 16 | 0 | 0 |
| 410 | Residence | Non-Participating | 346181.23 | 4754292.62 | 24 | 31 | 30 | 23 | 17 | 20 | 19 | 18 | 0 | 0 |
| 347 | Residence | Non-Participating | 345451.90 | 4754063.15 | 24 | 27 | 25 | 24 | 19 | 21 | 18 | 18 | 0 | 0 |
| 409 | Residence | Non-Participating | 346184.44 | 4754252.69 | 24 | 31 | 30 | 23 | 17 | 20 | 19 | 18 | 0 | 0 |
| 527 | Residence | Non-Participating | 343244.44 | 4754590.40 | 23 | 31 | 30 | 26 | 20 | 21 | 19 | 16 | 0 | 0 |
| 408 | Residence | Non-Participating | 346181.88 | 4754197.96 | 23 | 31 | 30 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 694 | Residence | Non-Participating | 341147.15 | 4756479.88 | 23 | 29 | 29 | 28 | 22 | 22 | 18 | 14 | 0 | 0 |
| 118 | Residence | Non-Participating | 341933.48 | 4757946.20 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 526 | Residence | Non-Participating | 343277.64 | 4754585.97 | 23 | 30 | 30 | 25 | 20 | 21 | 18 | 16 | 0 | 0 |
| 546 | Residence | Non-Participating | 343034.93 | 4754222.02 | 23 | 30 | 29 | 25 | 19 | 21 | 18 | 16 | 0 | 0 |
| 359 | Residence | Non-Participating | 345810.43 | 4753913.62 | 23 | 30 | 28 | 22 | 17 | 20 | 18 | 18 | 0 | 0 |
| 337 | Residence | Non-Participating | 345207.01 | 4754096.21 | 23 | 27 | 26 | 24 | 19 | 21 | 18 | 17 | 0 | 0 |
| 405 | Residence | Non-Participating | 346186.16 | 4754150.10 | 23 | 31 | 30 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 411 | Residence | Non-Participating | 346174.30 | 4754344.48 | 23 | 29 | 28 | 22 | 17 | 20 | 18 | 17 | 0 | 0 |
| 334 | Residence | Non-Participating | 345067.43 | 4754185.46 | 23 | 27 | 26 | 24 | 19 | 21 | 17 | 17 | 0 | 0 |
| 545 | Residence | Non-Participating | 343027.72 | 4754318.68 | 23 | 30 | 29 | 25 | 19 | 21 | 18 | 15 | 0 | 0 |
| 525 | Residence | Non-Participating | 343338.42 | 4754581.03 | 23 | 30 | 29 | 25 | 20 | 21 | 18 | 15 | 0 | 0 |
| 781 | Residence | Non-Participating | 341915.36 | 4753696.61 | 23 | 30 | 29 | 23 | 17 | 20 | 18 | 16 | 0 | 0 |
| 404 | Residence | Non-Participating | 346196.70 | 4754095.73 | 22 | 31 | 29 | 22 | 16 | 20 | 18 | 16 | 0 | 0 |
| 783 | Residence | Non-Participating | 343136.45 | 4754230.03 | 22 | 30 | 29 | 24 | 19 | 20 | 18 | 15 | 0 | 0 |
| 357 | Residence | Non-Participating | 345730.74 | 4753832.88 | 22 | 29 | 28 | 22 | 16 | 19 | 18 | 16 | 0 | 0 |
| 360 | Residence | Non-Participating | 345887.62 | 4753894.04 | 22 | 29 | 28 | 22 | 16 | 19 | 18 | 16 | 0 | 0 |
| 708 | Residence | Non-Participating | 340848.28 | 4755660.87 | 22 | 31 | 30 | 25 | 19 | 21 | 17 | 12 | 0 | 0 |
| 846 | Residence | Non-Participating | 341816.71 | 4753682.42 | 22 | 30 | 29 | 23 | 17 | 19 | 18 | 15 | 0 | 0 |
| 403 | Residence | Non-Participating | 346196.64 | 4754044.30 | 22 | 30 | 29 | 21 | 16 | 19 | 18 | 16 | 0 | 0 |
| 703 | Residence | Non-Participating | 340857.19 | 4755782.40 | 22 | 31 | 30 | 25 | 20 | 21 | 17 | 12 | 0 | 0 |
| 583 | Residence | Non-Participating | 342399.55 | 4753578.94 | 22 | 30 | 28 | 23 | 17 | 19 | 17 | 15 | 0 | 0 |
| 417 | Residence | Non-Participating | 346150.78 | 4754695.82 | 22 | 30 | 28 | 23 | 18 | 20 | 17 | 15 | 0 | 0 |
| 345 | Residence | Non-Participating | 345389.85 | 4753977.44 | 22 | 25 | 24 | 23 | 18 | 19 | 16 | 16 | 0 | 0 |
| 520 | Residence | Non-Participating | 343443.38 | 4754574.30 | 22 | 30 | 29 | 25 | 19 | 20 | 17 | 13 | 0 | 0 |
| 343 | Residence | Non-Participating | 345309.01 | 4753990.29 | 22 | 25 | 24 | 23 | 18 | 19 | 16 | 16 | 0 | 0 |
| 402 | Residence | Non-Participating | 346191.02 | 4754004.53 | 22 | 30 | 29 | 21 | 16 | 19 | 17 | 15 | 0 | 0 |
| 270 | Residence | Non-Participating | 344896.85 | 4756814.53 | 22 | 32 | 31 | 24 | 18 | 20 | 17 | 13 | 0 | 0 |
| 543 | Residence | Non-Participating | 343016.09 | 4754408.30 | 22 | 28 | 27 | 25 | 20 | 20 | 16 | 13 | 0 | 0 |
| 551 | Residence | Non-Participating | 343162.81 | 4754144.48 | 22 | 30 | 29 | 24 | 18 | 20 | 17 | 14 | 0 | 0 |
| 344 | Residence | Non-Participating | 345350.76 | 4753974.15 | 22 | 25 | 24 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 773 | Residence | Non-Participating | 340838.73 | 4756118.86 | 22 | 31 | 30 | 26 | 20 | 21 | 17 | 11 | 0 | 0 |
| 582 | Residence | Non-Participating | 342445.78 | 4753561.33 | 21 | 29 | 28 | 23 | 17 | 19 | 17 | 15 | 0 | 0 |
| 521 | Residence | Non-Participating | 343707.60 | 4754439.03 | 21 | 30 | 32 | 26 | 20 | 21 | 16 | 9 | 0 | 0 |
| 552 | Residence | Non-Participating | 343149.95 | 4754092.41 | 21 | 29 | 28 | 24 | 18 | 19 | 17 | 13 | 0 | 0 |
| 336 | Residence | Non-Participating | 345113.64 | 4754045.34 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 361 | Residence | Non-Participating | 345954.47 | 4753874.15 | 21 | 28 | 27 | 21 | 16 | 18 | 17 | 15 | 0 | 0 |
| 314 | Residence | Non-Participating | 344933.89 | 4754203.16 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 333 | Residence | Non-Participating | 344965.25 | 4754161.95 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 416 | Residence | Non-Participating | 346151.83 | 4754654.71 | 21 | 28 | 27 | 22 | 17 | 19 | 17 | 14 | 0 | 0 |
| 712 | Residence | Non-Participating | 340853.24 | 4755586.80 | 21 | 30 | 29 | 25 | 19 | 20 | 17 | 11 | 0 | 0 |
| 702 | Residence | Non-Participating | 340836.29 | 4755851.22 | 21 | 30 | 29 | 25 | 20 | 20 | 16 | 11 | 0 | 0 |
| 713 | Residence | Non-Participating | 340895.37 | 4755476.50 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 695 | Residence | Non-Participating | 340919.85 | 4756438.80 | 21 | 29 | 29 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 415 | Residence | Non-Participating | 346156.92 | 4754601.67 | 21 | 28 | 27 | 22 | 17 | 19 | 16 | 14 | 0 | 0 |
| 401 | Residence | Non-Participating | 346195.19 | 4753951.20 | 21 | 29 | 28 | 21 | 15 | 18 | 17 | 14 | 0 | 0 |
| 710 | Residence | Non-Participating | 340737.38 | 4755756.28 | 21 | 30 | 30 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 98 | Residence | Non-Participating | 341366.49 | 4757368.40 | 21 | 25 | 26 | 26 | 21 | 20 | 15 | 11 | 0 | 0 |
| 519 | Residence | Non-Participating | 343457.04 | 4754466.09 | 21 | 29 | 28 | 24 | 19 | 20 | 16 | 12 | 0 | 0 |
| 414 | Residence | Non-Participating | 346164.13 | 4754547.97 | 21 | 28 | 26 | 22 | 17 | 19 | 16 | 14 | 0 | 0 |
| 269 | Residence | Non-Participating | 344837.52 | 4756846.37 | 21 | 32 | 30 | 24 | 18 | 20 | 16 | 11 | 0 | 0 |
| 335 | Residence | Non-Participating | 345005.86 | 4754085.14 | 21 | 26 | 25 | 23 | 18 | 19 | 15 | 14 | 0 | 0 |
| 544 | Residence | Non-Participating | 343097.49 | 4754362.54 | 21 | 27 | 27 | 25 | 19 | 20 | 15 | 12 | 0 | 0 |
| 400 | Residence | Non-Participating | 346198.84 | 4753902.44 | 21 | 29 | 28 | 21 | 15 | 18 | 16 | 14 | 0 | 0 |
| 440 | Residence | Non-Participating | 346128.92 | 4756573.04 | 20 | 31 | 29 | 21 | 16 | 18 | 16 | 12 | 0 | 0 |
| 700 | Residence | Non-Participating | 340833.15 | 4755929.69 | 20 | 28 | 28 | 25 | 19 | 20 | 15 | 9 | 0 | 0 |
| 112 | Residence | Non-Participating | 341887.26 | 4757697.81 | 20 | 24 | 26 | 26 | 21 | 20 | 14 | 8 | 0 | 0 |
| 581 | Residence | Non-Participating | 342502.20 | 4753486.62 | 20 | 29 | 28 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 518 | Residence | Non-Participating | 343535.74 | 4754428.47 | 20 | 29 | 28 | 24 | 18 | 19 | 15 | 11 | 0 | 0 |
| 313 | Residence | Non-Participating | 344860.89 | 4754191.95 | 20 | 25 | 25 | 23 | 18 | 19 | 15 | 13 | 0 | 0 |
| 114 | Residence | Non-Participating | 341855.91 | 4757767.16 | 20 | 26 | 27 | 26 | 20 | 20 | 14 | 8 | 0 | 0 |
| 312 | Residence | Non-Participating | 344793.06 | 4754267.19 | 20 | 26 | 25 | 23 | 18 | 19 | 15 | 13 | 0 | 0 |
| 577 | Residence | Non-Participating | 342609.58 | 4753500.42 | 20 | 29 | 27 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 727 | Residence | Non-Participating | 341021.28 | 4755411.72 | 20 | 26 | 26 | 25 | 19 | 20 | 14 | 9 | 0 | 0 |
| 113 | Residence | Non-Participating | 341918.41 | 4757754.52 | 20 | 24 | 26 | 26 | 21 | 20 | 13 | 7 | 0 | 0 |
| 512 | Residence | Non-Participating | 344404.92 | 4754273.26 | 20 | 29 | 31 | 24 | 18 | 19 | 15 | 9 | 0 | 0 |
| 263 | Residence | Non-Participating | 344787.54 | 4757053.79 | 20 | 31 | 30 | 23 | 17 | 19 | 15 | 9 | 0 | 0 |
| 598 | Residence | Non-Participating | 341470.67 | 4753649.79 | 20 | 30 | 28 | 22 | 16 | 18 | 16 | 11 | 0 | 0 |
| 382 | Residence | Non-Participating | 346180.56 | 4753805.18 | 20 | 28 | 27 | 20 | 15 | 17 | 16 | 13 | 0 | 0 |
| 594 | Residence | Non-Participating | 341439.04 | 4753643.03 | 20 | 30 | 29 | 22 | 16 | 18 | 16 | 11 | 0 | 0 |
| 441 | Residence | Non-Participating | 346137.14 | 4756621.88 | 20 | 30 | 28 | 21 | 15 | 18 | 16 | 11 | 0 | 0 |
| 709 | Residence | Non-Participating | 340660.75 | 4755614.99 | 20 | 29 | 28 | 24 | 18 | 19 | 15 | 8 | 0 | 0 |
| 554 | Residence | Non-Participating | 343236.24 | 4753927.68 | 20 | 28 | 27 | 23 | 17 | 18 | 15 | 11 | 0 | 0 |
| 576 | Residence | Non-Participating | 342682.28 | 4753482.31 | 20 | 28 | 27 | 22 | 16 | 18 | 15 | 12 | 0 | 0 |
| 592 | Residence | Non-Participating | 341356.23 | 4753705.45 | 20 | 30 | 29 | 22 | 16 | 18 | 15 | 11 | 0 | 0 |
| 365 | Residence | Non-Participating | 346020.19 | 4753784.54 | 20 | 27 | 26 | 20 | 15 | 17 | 15 | 13 | 0 | 0 |
| 413 | Residence | Non-Participating | 346166.22 | 4754449.02 | 20 | 24 | 23 | 22 | 17 | 18 | 14 | 13 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 513 | Residence | Non-Participating | 344387.12 | 4754211.77 | 20 | 29 | 31 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 311 | Residence | Non-Participating | 344777.42 | 4754209.65 | 20 | 26 | 25 | 22 | 17 | 18 | 14 | 12 | 0 | 0 |
| 563 | Residence | Non-Participating | 343140.65 | 4753791.71 | 19 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 575 | Residence | Non-Participating | 342754.14 | 4753500.13 | 19 | 28 | 27 | 22 | 16 | 18 | 15 | 11 | 0 | 0 |
| 595 | Residence | Non-Participating | 341399.75 | 4753636.22 | 19 | 30 | 28 | 22 | 16 | 18 | 15 | 10 | 0 | 0 |
| 442 | Residence | Non-Participating | 346143.75 | 4756649.45 | 19 | 30 | 28 | 21 | 15 | 18 | 15 | 11 | 0 | 0 |
| 714 | Residence | Non-Participating | 340657.34 | 4755479.54 | 19 | 29 | 28 | 24 | 18 | 19 | 15 | 8 | 0 | 0 |
| 412 | Residence | Non-Participating | 346169.26 | 4754400.57 | 19 | 24 | 23 | 21 | 16 | 18 | 14 | 12 | 0 | 0 |
| 517 | Residence | Non-Participating | 344099.18 | 4754172.97 | 19 | 29 | 31 | 24 | 18 | 19 | 14 | 6 | 0 | 0 |
| 574 | Residence | Non-Participating | 342820.57 | 4753504.67 | 19 | 28 | 27 | 22 | 16 | 17 | 15 | 11 | 0 | 0 |
| 593 | Residence | Non-Participating | 341309.23 | 4753739.84 | 19 | 29 | 27 | 22 | 16 | 17 | 15 | 10 | 0 | 0 |
| 367 | Residence | Non-Participating | 346197.66 | 4753724.02 | 19 | 28 | 27 | 20 | 14 | 17 | 15 | 12 | 0 | 0 |
| 725 | Residence | Non-Participating | 340947.58 | 4755303.31 | 19 | 24 | 25 | 24 | 19 | 19 | 13 | 7 | 0 | 0 |
| 366 | Residence | Non-Participating | 346081.11 | 4753760.18 | 19 | 27 | 26 | 20 | 14 | 17 | 15 | 12 | 0 | 0 |
| 562 | Residence | Non-Participating | 343098.49 | 4753657.80 | 19 | 28 | 27 | 22 | 16 | 17 | 14 | 10 | 0 | 0 |
| 514 | Residence | Non-Participating | 344471.29 | 4754186.89 | 19 | 27 | 30 | 24 | 18 | 18 | 13 | 7 | 0 | 0 |
| 717 | Residence | Non-Participating | 340835.69 | 4755406.83 | 19 | 25 | 25 | 24 | 18 | 18 | 13 | 7 | 0 | 0 |
| 699 | Residence | Non-Participating | 340777.11 | 4756057.04 | 19 | 25 | 25 | 25 | 19 | 19 | 12 | 5 | 0 | 0 |
| 369 | Residence | Non-Participating | 346285.96 | 4753772.97 | 19 | 28 | 26 | 20 | 14 | 17 | 15 | 11 | 0 | 0 |
| 726 | Residence | Non-Participating | 340845.43 | 4755264.20 | 19 | 25 | 25 | 24 | 18 | 18 | 13 | 7 | 0 | 0 |
| 368 | Residence | Non-Participating | 346243.77 | 4753712.08 | 19 | 28 | 26 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 443 | Residence | Non-Participating | 346150.78 | 4756683.40 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 10 | 0 | 0 |
| 747 | Residence | Non-Participating | 340582.38 | 4757714.86 | 18 | 26 | 31 | 25 | 18 | 19 | 12 | 0 | 0 | 0 |
| 748 | Residence | Non-Participating | 340599.16 | 4757731.61 | 18 | 27 | 31 | 25 | 18 | 19 | 12 | 0 | 0 | 0 |
| 746 | Residence | Non-Participating | 340581.48 | 4757730.88 | 18 | 26 | 31 | 24 | 18 | 18 | 12 | 0 | 0 | 0 |
| 74 | Residence | Non-Participating | 340633.05 | 4757715.60 | 18 | 26 | 31 | 25 | 18 | 19 | 11 | 0 | 0 | 0 |
| 555 | Residence | Non-Participating | 343297.72 | 4753758.19 | 18 | 27 | 26 | 22 | 16 | 17 | 14 | 8 | 0 | 0 |
| 315 | Residence | Non-Participating | 344696.60 | 4754138.38 | 18 | 24 | 23 | 22 | 17 | 17 | 13 | 10 | 0 | 0 |
| 744 | Residence | Non-Participating | 340561.92 | 4757727.17 | 18 | 26 | 30 | 24 | 18 | 18 | 11 | 0 | 0 | 0 |
| 370 | Residence | Non-Participating | 346281.32 | 4753700.04 | 18 | 27 | 26 | 19 | 14 | 16 | 14 | 10 | 0 | 0 |
| 399 | Residence | Non-Participating | 346348.39 | 4753747.46 | 18 | 28 | 26 | 19 | 14 | 16 | 14 | 10 | 0 | 0 |
| 719 | Residence | Non-Participating | 340483.07 | 4755418.55 | 18 | 28 | 27 | 23 | 17 | 17 | 13 | 5 | 0 | 0 |
| 268 | Residence | Non-Participating | 344758.61 | 4757174.89 | 18 | 30 | 29 | 23 | 17 | 18 | 13 | 4 | 0 | 0 |
| 571 | Residence | Non-Participating | 343063.67 | 4753517.74 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 9 | 0 | 0 |
| 601 | Residence | Non-Participating | 341438.06 | 4753473.45 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 9 | 0 | 0 |
| 718 | Residence | Non-Participating | 340799.51 | 4755400.70 | 18 | 23 | 24 | 24 | 18 | 18 | 12 | 5 | 0 | 0 |
| 599 | Residence | Non-Participating | 341337.30 | 4753510.68 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 8 | 0 | 0 |
| 600 | Residence | Non-Participating | 341338.75 | 4753459.32 | 18 | 29 | 27 | 21 | 15 | 17 | 14 | 8 | 0 | 0 |
| 444 | Residence | Non-Participating | 346171.67 | 4756774.61 | 18 | 28 | 27 | 20 | 14 | 16 | 14 | 8 | 0 | 0 |
| 97 | Residence | Non-Participating | 341120.31 | 4757471.02 | 18 | 23 | 24 | 25 | 19 | 18 | 11 | 2 | 0 | 0 |
| 570 | Residence | Non-Participating | 343124.05 | 4753523.91 | 18 | 27 | 26 | 21 | 16 | 17 | 13 | 8 | 0 | 0 |
| 560 | Residence | Non-Participating | 343275.30 | 4753653.05 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 317 | Residence | Non-Participating | 344551.25 | 4754171.02 | 18 | 25 | 24 | 22 | 16 | 17 | 12 | 8 | 0 | 0 |
| 398 | Residence | Non-Participating | 346371.98 | 4753739.71 | 18 | 27 | 26 | 19 | 13 | 16 | 14 | 10 | 0 | 0 |
| 316 | Residence | Non-Participating | 344604.51 | 4754158.21 | 18 | 23 | 23 | 22 | 16 | 17 | 12 | 8 | 0 | 0 |
| 383 | Residence | Non-Participating | 346328.56 | 4753679.96 | 18 | 27 | 26 | 19 | 13 | 16 | 14 | 9 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 323 | Residence | Non-Participating | 344676.10 | 4754061.41 | 18 | 23 | 23 | 22 | 16 | 17 | 12 | 9 | 0 | 0 |
| 602 | Residence | Non-Participating | 341444.86 | 4753401.76 | 18 | 28 | 27 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 87 | Residence | Non-Participating | 340446.33 | 4757833.76 | 18 | 27 | 30 | 24 | 18 | 18 | 11 | 0 | 0 | 0 |
| 586 | Residence | Non-Participating | 342514.18 | 4753209.47 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 397 | Residence | Non-Participating | 346396.41 | 4753727.99 | 17 | 27 | 26 | 19 | 13 | 16 | 13 | 9 | 0 | 0 |
| 445 | Residence | Non-Participating | 346166.51 | 4756807.58 | 17 | 28 | 27 | 20 | 14 | 16 | 13 | 8 | 0 | 0 |
| 86 | Residence | Non-Participating | 340445.67 | 4757849.44 | 17 | 26 | 30 | 24 | 17 | 18 | 11 | 0 | 0 | 0 |
| 18 | Residence | Non-Participating | 340434.52 | 4757786.99 | 17 | 26 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 17 | Residence | Non-Participating | 340431.69 | 4757800.09 | 17 | 26 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 561 | Residence | Non-Participating | 343310.55 | 4753606.26 | 17 | 27 | 26 | 21 | 16 | 16 | 13 | 7 | 0 | 0 |
| 12 | Residence | Non-Participating | 340426.38 | 4757814.28 | 17 | 26 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 603 | Residence | Non-Participating | 341442.14 | 4753337.49 | 17 | 28 | 27 | 21 | 15 | 16 | 13 | 7 | 0 | 0 |
| 388 | Residence | Non-Participating | 346367.60 | 4753668.58 | 17 | 27 | 26 | 19 | 13 | 15 | 13 | 9 | 0 | 0 |
| 11 | Residence | Non-Participating | 340415.74 | 4757822.22 | 17 | 26 | 30 | 24 | 17 | 17 | 10 | 0 | 0 | 0 |
| 749 | Residence | Non-Participating | 340414.94 | 4757837.76 | 17 | 26 | 30 | 24 | 17 | 17 | 10 | 0 | 0 | 0 |
| 604 | Residence | Non-Participating | 341351.81 | 4753334.96 | 17 | 28 | 27 | 21 | 14 | 16 | 13 | 6 | 0 | 0 |
| 258 | Residence | Non-Participating | 344740.44 | 4757226.66 | 17 | 28 | 27 | 23 | 17 | 17 | 11 | 2 | 0 | 0 |
| 389 | Residence | Non-Participating | 346406.24 | 4753651.72 | 17 | 27 | 25 | 19 | 13 | 15 | 13 | 8 | 0 | 0 |
| 446 | Residence | Non-Participating | 346206.66 | 4756854.91 | 17 | 28 | 26 | 20 | 14 | 16 | 13 | 7 | 0 | 0 |
| 609 | Residence | Non-Participating | 341379.72 | 4753277.97 | 17 | 28 | 26 | 20 | 14 | 16 | 12 | 6 | 0 | 0 |
| 390 | Residence | Non-Participating | 346442.80 | 4753637.95 | 17 | 27 | 26 | 19 | 13 | 15 | 13 | 8 | 0 | 0 |
| 507 | Residence | Non-Participating | 347084.71 | 4755083.13 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 5 | 0 | 0 |
| 449 | Residence | Non-Participating | 346144.95 | 4756971.71 | 16 | 27 | 26 | 20 | 14 | 15 | 12 | 6 | 0 | 0 |
| 146 | Residence | Non-Participating | 344642.32 | 4758207.04 | 16 | 26 | 30 | 23 | 17 | 17 | 9 | 0 | 0 | 0 |
| 610 | Residence | Non-Participating | 341257.60 | 4753624.21 | 16 | 26 | 25 | 21 | 15 | 15 | 11 | 5 | 0 | 0 |
| 391 | Residence | Non-Participating | 346483.75 | 4753630.78 | 16 | 27 | 25 | 19 | 13 | 15 | 12 | 7 | 0 | 0 |
| 616 | Residence | Non-Participating | 341302.01 | 4753641.19 | 16 | 25 | 24 | 21 | 15 | 15 | 11 | 5 | 0 | 0 |
| 96 | Residence | Non-Participating | 340552.99 | 4757339.53 | 16 | 21 | 23 | 23 | 17 | 16 | 9 | 1 | 0 | 0 |
| 611 | Residence | Non-Participating | 341194.60 | 4753614.22 | 16 | 25 | 25 | 21 | 15 | 15 | 11 | 4 | 0 | 0 |
| 502 | Residence | Non-Participating | 347163.47 | 4755174.03 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 500 | Residence | Non-Participating | 347162.32 | 4755274.48 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 501 | Residence | Non-Participating | 347164.81 | 4755229.39 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 95 | Residence | Non-Participating | 340560.50 | 4757390.93 | 16 | 21 | 23 | 23 | 17 | 16 | 9 | 0 | 0 | 0 |
| 485 | Residence | Non-Participating | 347016.30 | 4756228.89 | 16 | 28 | 26 | 19 | 12 | 15 | 11 | 4 | 0 | 0 |
| 503 | Residence | Non-Participating | 347201.38 | 4755070.15 | 16 | 28 | 26 | 18 | 12 | 15 | 11 | 4 | 0 | 0 |
| 721 | Residence | Non-Participating | 340319.93 | 4755433.81 | 16 | 23 | 23 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 149 | Residence | Non-Participating | 344792.46 | 4758401.18 | 15 | 27 | 29 | 22 | 16 | 16 | 8 | 0 | 0 | 0 |
| 481 | Residence | Non-Participating | 347019.94 | 4756308.48 | 15 | 28 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 486 | Residence | Non-Participating | 347088.40 | 4756084.47 | 15 | 28 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 324 | Residence | Non-Participating | 344573.74 | 4753714.59 | 15 | 22 | 21 | 20 | 15 | 14 | 9 | 3 | 0 | 0 |
| 476 | Residence | Non-Participating | 347005.28 | 4756377.71 | 15 | 27 | 26 | 18 | 12 | 14 | 11 | 3 | 0 | 0 |
| 51 | Residence | Non-Participating | 340532.64 | 4757639.87 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 62 | Residence | Non-Participating | 340570.13 | 4757677.14 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 753 | Residence | Non-Participating | 340548.00 | 4757645.56 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |
| 60 | Residence | Non-Participating | 340552.67 | 4757670.35 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 63 | Residence | Non-Participating | 340579.71 | 4757694.29 | 15 | 21 | 22 | 22 | 16 | 15 | 8 | 0 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 73 | Residence | Non-Participating | 340635.45 | 4757729.55 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 494 | Residence | Non-Participating | 347176.25 | 4756030.78 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 50 | Residence | Non-Participating | 340520.00 | 4757636.78 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 61 | Residence | Non-Participating | 340563.24 | 4757689.61 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 49 | Residence | Non-Participating | 340504.05 | 4757634.71 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 58 | Residence | Non-Participating | 340535.51 | 4757666.16 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 59 | Residence | Non-Participating | 340543.72 | 4757686.18 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 71 | Residence | Non-Participating | 340599.54 | 4757751.59 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 72 | Residence | Non-Participating | 340628.17 | 4757746.55 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 76 | Residence | Non-Participating | 340631.72 | 4757783.98 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 745 | Residence | Non-Participating | 340565.12 | 4757712.61 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 75 | Residence | Non-Participating | 340634.72 | 4757766.84 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 56 | Residence | Non-Participating | 340516.67 | 4757661.53 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 48 | Residence | Non-Participating | 340489.24 | 4757629.76 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 57 | Residence | Non-Participating | 340526.30 | 4757681.53 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 69 | Residence | Non-Participating | 340542.91 | 4757706.37 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 738 | Residence | Non-Participating | 340655.45 | 4757824.51 | 15 | 21 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 737 | Residence | Non-Participating | 340641.07 | 4757822.97 | 15 | 20 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 477 | Residence | Non-Participating | 347073.65 | 4756357.53 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 482 | Residence | Non-Participating | 347169.18 | 4756279.77 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 497 | Residence | Non-Participating | 347146.49 | 4755581.55 | 15 | 26 | 25 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 54 | Residence | Non-Participating | 340494.12 | 4757661.72 | 15 | 21 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 55 | Residence | Non-Participating | 340507.19 | 4757675.24 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 68 | Residence | Non-Participating | 340543.46 | 4757723.22 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 78 | Residence | Non-Participating | 340599.68 | 4757783.87 | 15 | 20 | 22 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 79 | Residence | Non-Participating | 340582.48 | 4757778.03 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 736 | Residence | Non-Participating | 340601.22 | 4757800.76 | 15 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 47 | Residence | Non-Participating | 340451.14 | 4757622.89 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 66 | Residence | Non-Participating | 340507.38 | 4757698.02 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 67 | Residence | Non-Participating | 340523.89 | 4757717.41 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 65 | Residence | Non-Participating | 340498.34 | 4757709.35 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 80 | Residence | Non-Participating | 340555.61 | 4757775.68 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 77 | Residence | Non-Participating | 340624.23 | 4757802.16 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 741 | Residence | Non-Participating | 340592.35 | 4757810.89 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 496 | Residence | Non-Participating | 347156.25 | 4755634.15 | 14 | 26 | 25 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 19 | Residence | Non-Participating | 340435.24 | 4757774.39 | 14 | 23 | 23 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 46 | Residence | Non-Participating | 340430.67 | 4757620.19 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 53 | Residence | Non-Participating | 340449.09 | 4757653.07 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 740 | Residence | Non-Participating | 340572.27 | 4757811.57 | 14 | 20 | 22 | 22 | 16 | 14 | 7 | 0 | 0 | 0 |
| 81 | Residence | Non-Participating | 340547.91 | 4757795.53 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 739 | Residence | Non-Participating | 340564.51 | 4757808.55 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 612 | Residence | Non-Participating | 341196.00 | 4753672.48 | 14 | 21 | 21 | 21 | 15 | 14 | 8 | 1 | 0 | 0 |
| 490 | Residence | Non-Participating | 347235.44 | 4756070.75 | 14 | 27 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 237 | Residence | Non-Participating | 345902.13 | 4757314.03 | 14 | 26 | 25 | 20 | 13 | 14 | 9 | 1 | 0 | 0 |
| 243 | Residence | Non-Participating | 345816.59 | 4757514.34 | 14 | 26 | 25 | 20 | 13 | 14 | 9 | 0 | 0 | 0 |
| 52 | Residence | Non-Participating | 340439.48 | 4757659.66 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 45 | Residence | Non-Participating | 340396.72 | 4757619.64 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 39 | Residence | Non-Participating | 340419.72 | 4757656.24 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 40 | Residence | Non-Participating | 340436.18 | 4757685.60 | 14 | 21 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 64 | Residence | Non-Participating | 340452.34 | 4757699.53 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 82 | Residence | Non-Participating | 340539.13 | 4757808.04 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 83 | Residence | Non-Participating | 340561.25 | 4757823.29 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 735 | Residence | Non-Participating | 340587.65 | 4757842.10 | 14 | 20 | 22 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 255 | Residence | Non-Participating | 344718.78 | 4757614.35 | 14 | 22 | 22 | 22 | 15 | 14 | 6 | 0 | 0 | 0 |
| 41 | Residence | Non-Participating | 340416.88 | 4757682.16 | 14 | 21 | 22 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 70 | Residence | Non-Participating | 340458.72 | 4757722.91 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 38 | Residence | Non-Participating | 340401.47 | 4757658.00 | 14 | 20 | 21 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 84 | Residence | Non-Participating | 340568.27 | 4757842.86 | 14 | 20 | 21 | 22 | 15 | 14 | 7 | 0 | 0 | 0 |
| 742 | Residence | Non-Participating | 340548.18 | 4757847.68 | 14 | 20 | 21 | 22 | 15 | 14 | 6 | 0 | 0 | 0 |
| 489 | Residence | Non-Participating | 347241.36 | 4755981.47 | 14 | 26 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 37 | Residence | Non-Participating | 340389.16 | 4757646.84 | 14 | 20 | 21 | 21 | 15 | 14 | 7 | 0 | 0 | 0 |
| 20 | Residence | Non-Participating | 340440.05 | 4757739.88 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 21 | Residence | Non-Participating | 340426.49 | 4757726.13 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 750 | Residence | Non-Participating | 340540.49 | 4757864.59 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 44 | Residence | Non-Participating | 340346.55 | 4757615.12 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 22 | Residence | Non-Participating | 340417.11 | 4757719.43 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 35 | Residence | Non-Participating | 340376.25 | 4757679.84 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 23 | Residence | Non-Participating | 340406.47 | 4757709.18 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 743 | Residence | Non-Participating | 340531.28 | 4757872.77 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 92 | Residence | Non-Participating | 340540.23 | 4757832.03 | 14 | 20 | 21 | 22 | 15 | 14 | 6 | 0 | 0 | 0 |
| 93 | Residence | Non-Participating | 340510.49 | 4757825.92 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 488 | Residence | Non-Participating | 347176.15 | 4755976.91 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 2 | 0 | 0 |
| 43 | Residence | Non-Participating | 340328.24 | 4757613.81 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 24 | Residence | Non-Participating | 340402.69 | 4757735.36 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 36 | Residence | Non-Participating | 340362.59 | 4757673.22 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 42 | Residence | Non-Participating | 340311.86 | 4757613.40 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 94 | Residence | Non-Participating | 340498.81 | 4757836.99 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 751 | Residence | Non-Participating | 340512.81 | 4757846.83 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 33 | Residence | Non-Participating | 340369.33 | 4757703.00 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 91 | Residence | Non-Participating | 340536.12 | 4757913.02 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 508 | Residence | Non-Participating | 347347.94 | 4754602.15 | 14 | 26 | 25 | 17 | 11 | 13 | 9 | 0 | 0 | 0 |
| 34 | Residence | Non-Participating | 340351.98 | 4757702.14 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 90 | Residence | Non-Participating | 340496.73 | 4757900.94 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 752 | Residence | Non-Participating | 340475.37 | 4757879.87 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 327 | Residence | Non-Participating | 344605.69 | 4753468.08 | 14 | 21 | 21 | 20 | 14 | 13 | 7 | 1 | 0 | 0 |
| 250 | Residence | Non-Participating | 345628.03 | 4757439.09 | 14 | 23 | 23 | 20 | 13 | 13 | 8 | 0 | 0 | 0 |
| 13 | Residence | Non-Participating | 340356.52 | 4757766.62 | 14 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 15 | Residence | Non-Participating | 340373.01 | 4757760.13 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 28 | Residence | Non-Participating | 340348.74 | 4757756.79 | 14 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 85 | Residence | Non-Participating | 340444.57 | 4757866.55 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 16 | Residence | Non-Participating | 340392.58 | 4757765.46 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 25 | Residence | Non-Participating | 340358.76 | 4757734.29 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 32 | Residence | Non-Participating | 340337.92 | 4757699.32 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 88 | Residence | Non-Participating | 340452.78 | 4757899.39 | 14 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 89 | Residence | Non-Participating | 340473.15 | 4757909.45 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 26 | Residence | Non-Participating | 340343.14 | 4757736.96 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 14 | Residence | Non-Participating | 340381.67 | 4757778.49 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 27 | Residence | Non-Participating | 340333.94 | 4757739.98 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 30 | Residence | Non-Participating | 340316.69 | 4757693.55 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 31 | Residence | Non-Participating | 340327.13 | 4757705.69 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 29 | Residence | Non-Participating | 340335.17 | 4757754.68 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 4 | Residence | Non-Participating | 340417.28 | 4757863.52 | 13 | 20 | 21 | 21 | 15 | 13 | 6 | 0 | 0 | 0 |
| 8 | Residence | Non-Participating | 340361.08 | 4757799.40 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 10 | Residence | Non-Participating | 340392.94 | 4757813.23 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 1 | Residence | Non-Participating | 340426.95 | 4757902.14 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 2 | Residence | Non-Participating | 340415.40 | 4757879.73 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 7 | Residence | Non-Participating | 340360.48 | 4757816.12 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 9 | Residence | Non-Participating | 340375.63 | 4757805.66 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 249 | Residence | Non-Participating | 345585.17 | 4757516.19 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 6 | Residence | Non-Participating | 340383.78 | 4757826.93 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 474 | Residence | Non-Participating | 347015.82 | 4756529.25 | 13 | 25 | 24 | 18 | 12 | 13 | 8 | 0 | 0 | 0 |
| 471 | Residence | Non-Participating | 346970.46 | 4756641.49 | 13 | 25 | 24 | 18 | 12 | 12 | 8 | 0 | 0 | 0 |
| 5 | Residence | Non-Participating | 340393.75 | 4757848.01 | 13 | 20 | 21 | 21 | 15 | 13 | 5 | 0 | 0 | 0 |
| 803 | Residence | Non-Participating | 346999.39 | 4756624.60 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 469 | Residence | Non-Participating | 346920.15 | 4756765.69 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 3 | Residence | Non-Participating | 340379.40 | 4757860.89 | 13 | 20 | 21 | 21 | 15 | 13 | 4 | 0 | 0 | 0 |
| 468 | Residence | Non-Participating | 346961.55 | 4756701.61 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 450 | Residence | Non-Participating | 346929.93 | 4757155.66 | 13 | 26 | 25 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 470 | Residence | Non-Participating | 347014.45 | 4756650.09 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 452 | Residence | Non-Participating | 346981.93 | 4757153.16 | 13 | 26 | 25 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 462 | Residence | Non-Participating | 346958.22 | 4756799.36 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 467 | Residence | Non-Participating | 346957.23 | 4756843.81 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 463 | Residence | Non-Participating | 347013.15 | 4756775.20 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 487 | Residence | Non-Participating | 347160.04 | 4756091.04 | 12 | 24 | 23 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 460 | Residence | Non-Participating | 346951.26 | 4756882.27 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 213 | Residence | Non-Participating | 346642.27 | 4757409.91 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 797 | Residence | Non-Participating | 347128.91 | 4756626.62 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 461 | Residence | Non-Participating | 347009.07 | 4756833.10 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 451 | Residence | Non-Participating | 346993.73 | 4757085.07 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 457 | Residence | Non-Participating | 346952.92 | 4756970.50 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 214 | Residence | Non-Participating | 346726.74 | 4757362.99 | 12 | 25 | 23 | 18 | 11 | 11 | 7 | 0 | 0 | 0 |
| 456 | Residence | Non-Participating | 346935.24 | 4757033.22 | 12 | 24 | 23 | 18 | 11 | 11 | 7 | 0 | 0 | 0 |
| 199 | Residence | Non-Participating | 346604.31 | 4757506.82 | 12 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 201 | Residence | Non-Participating | 346636.74 | 4757517.54 | 12 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 455 | Residence | Non-Participating | 347013.28 | 4757024.14 | 12 | 25 | 23 | 17 | 11 | 11 | 6 | 0 | 0 | 0 |
| 241 | Residence | Non-Participating | 346128.12 | 4757318.87 | 11 | 19 | 19 | 19 | 12 | 11 | 4 | 0 | 0 | 0 |
| 191 | Residence | Non-Participating | 346621.38 | 4757704.92 | 11 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 198 | Residence | Non-Participating | 346521.74 | 4757494.77 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |

**Table 7-5.1b_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 200 | Residence | Non-Participating | 346589.69 | 4757452.70 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 196 | Residence | Non-Participating | 346437.22 | 4757552.77 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 197 | Residence | Non-Participating | 346519.34 | 4757567.84 | 11 | 22 | 22 | 18 | 11 | 10 | 4 | 0 | 0 | 0 |
| 169 | Residence | Non-Participating | 346566.60 | 4757897.83 | 11 | 24 | 23 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 215 | Residence | Non-Participating | 346812.26 | 4757344.51 | 11 | 23 | 22 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 168 | Residence | Non-Participating | 346602.85 | 4757937.68 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 230 | Residence | Non-Participating | 347439.34 | 4756895.69 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 222 | Residence | Non-Participating | 347230.31 | 4757183.57 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 228 | Residence | Non-Participating | 347312.15 | 4757094.81 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 216 | Residence | Non-Participating | 346842.78 | 4757427.28 | 10 | 22 | 21 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 163 | Residence | Non-Participating | 346607.46 | 4758008.61 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 162 | Residence | Non-Participating | 346565.18 | 4758049.69 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 190 | Residence | Non-Participating | 346525.09 | 4757819.54 | 10 | 23 | 22 | 17 | 10 | 10 | 3 | 0 | 0 | 0 |
| 195 | Residence | Non-Participating | 346378.15 | 4757625.40 | 10 | 21 | 20 | 18 | 11 | 10 | 3 | 0 | 0 | 0 |
| 172 | Residence | Non-Participating | 346671.41 | 4758021.25 | 10 | 24 | 22 | 17 | 10 | 9 | 4 | 0 | 0 | 0 |
| 242 | Residence | Non-Participating | 346349.71 | 4757519.65 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 232 | Residence | Non-Participating | 346229.07 | 4757623.62 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 229 | Residence | Non-Participating | 347459.96 | 4757043.46 | 10 | 24 | 22 | 16 | 9 | 9 | 4 | 0 | 0 | 0 |
| 194 | Residence | Non-Participating | 346433.37 | 4757642.74 | 10 | 21 | 20 | 17 | 11 | 9 | 2 | 0 | 0 | 0 |
| 161 | Residence | Non-Participating | 346606.73 | 4758103.30 | 10 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 174 | Residence | Non-Participating | 346756.52 | 4757994.72 | 10 | 24 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 170 | Residence | Non-Participating | 346559.53 | 4757870.26 | 10 | 22 | 21 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 173 | Residence | Non-Participating | 346755.53 | 4758062.22 | 9 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 231 | Residence | Non-Participating | 347660.99 | 4756880.45 | 9 | 24 | 22 | 16 | 9 | 9 | 3 | 0 | 0 | 0 |
| 192 | Residence | Non-Participating | 346472.72 | 4757739.95 | 9 | 20 | 20 | 17 | 10 | 9 | 2 | 0 | 0 | 0 |
| 217 | Residence | Non-Participating | 347041.60 | 4757337.03 | 9 | 20 | 20 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 223 | Residence | Non-Participating | 346998.38 | 4757214.50 | 9 | 19 | 19 | 17 | 10 | 9 | 2 | 0 | 0 | 0 |
| 186 | Residence | Non-Participating | 347183.04 | 4758019.17 | 9 | 24 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 218 | Residence | Non-Participating | 347074.58 | 4757270.70 | 9 | 20 | 20 | 17 | 10 | 9 | 2 | 0 | 0 | 0 |
| 182 | Residence | Non-Participating | 346979.66 | 4758080.24 | 9 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 212 | Residence | Non-Participating | 346730.86 | 4757474.72 | 9 | 18 | 18 | 17 | 10 | 9 | 1 | 0 | 0 | 0 |
| 156 | Residence | Non-Participating | 346539.42 | 4758332.47 | 9 | 23 | 22 | 17 | 9 | 8 | 1 | 0 | 0 | 0 |
| 183 | Residence | Non-Participating | 346989.91 | 4758144.18 | 9 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 157 | Residence | Non-Participating | 346592.41 | 4758325.57 | 8 | 22 | 21 | 16 | 9 | 8 | 1 | 0 | 0 | 0 |
| 179 | Residence | Non-Participating | 346891.87 | 4757934.76 | 8 | 21 | 20 | 16 | 9 | 8 | 1 | 0 | 0 | 0 |
| 160 | Residence | Non-Participating | 346591.16 | 4758172.59 | 8 | 19 | 18 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 153 | Residence | Non-Participating | 346504.64 | 4758783.62 | 7 | 22 | 21 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 181 | Residence | Non-Participating | 346872.09 | 4758113.74 | 7 | 16 | 17 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 151 | Residence | Non-Participating | 346521.98 | 4759098.27 | 6 | 21 | 20 | 15 | 8 | 6 | 0 | 0 | 0 | 0 |
| 152 | Residence | Non-Participating | 346557.28 | 4758716.53 | 6 | 17 | 17 | 16 | 8 | 6 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **297** | **Residence** | **Non-Participating** | **344880.76** | **4755539.53** | **38** | **42** | **41** | **35** | **28** | **33** | **33** | **35** | **20** | **0** |
| **152** | **Residence** | **Non-Participating** | **346557.28** | **4758716.53** | **6** | **17** | **17** | **16** | **8** | **6** | **0** | **0** | **0** | **0** |

**Table 7-5.1c_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 294 | Residence | Participating | 344815.17 | 4755686.20 | 38 | 41 | 40 | 34 | 27 | 32 | 32 | 34 | 19 | 0 |
| 673 | Residence | Participating | 343714.10 | 4755880.53 | 26 | 32 | 36 | 30 | 25 | 26 | 21 | 13 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Residential Receptors | | | | | | | | | | | | | | |
| **294** | **Residence** | **Participating** | **344815.17** | **4755686.20** | **38** | **41** | **40** | **34** | **27** | **32** | **32** | **34** | **19** | **0** |
| **673** | **Residence** | **Participating** | **343714.10** | **4755880.53** | **26** | **32** | **36** | **30** | **25** | **26** | **21** | **13** | **0** | **0** |

**Table 7-5.1d_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 294 | Residence | Participating | 344815.17 | 4755686.20 | 38 | 41 | 40 | 34 | 27 | 32 | 32 | 34 | 19 | 0 |
| 673 | Residence | Participating | 343714.10 | 4755880.53 | 26 | 32 | 36 | 30 | 25 | 26 | 21 | 13 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Residential Receptors | | | | | | | | | | | | | | |
| **294** | **Residence** | **Participating** | **344815.17** | **4755686.20** | **38** | **41** | **40** | **34** | **27** | **32** | **32** | **34** | **19** | **0** |
| **673** | **Residence** | **Participating** | **343714.10** | **4755880.53** | **26** | **32** | **36** | **30** | **25** | **26** | **21** | **13** | **0** | **0** |

**Table 7-5.1e_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Commercial and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 99 | Commercial | Non-Participating | 341600.85 | 4757373.60 | 27 | 35 | 37 | 30 | 24 | 26 | 23 | 19 | 0 | 0 |
| 100 | Commercial | Non-Participating | 341630.06 | 4757522.12 | 26 | 34 | 36 | 29 | 24 | 25 | 21 | 16 | 0 | 0 |
| 134 | Commercial | Non-Participating | 342924.44 | 4757440.76 | 28 | 34 | 38 | 32 | 26 | 27 | 22 | 14 | 0 | 0 |
| 135 | Commercial | Non-Participating | 343142.37 | 4757599.28 | 25 | 32 | 36 | 30 | 24 | 25 | 20 | 10 | 0 | 0 |
| 136 | Commercial | Non-Participating | 343358.76 | 4757584.46 | 24 | 32 | 35 | 29 | 23 | 24 | 19 | 9 | 0 | 0 |
| 139 | Commercial | Non-Participating | 343489.75 | 4757412.63 | 25 | 31 | 35 | 29 | 24 | 25 | 19 | 8 | 0 | 0 |
| 150 | Commercial | Non-Participating | 344770.28 | 4758677.02 | 15 | 27 | 29 | 22 | 15 | 15 | 7 | 0 | 0 | 0 |
| 171 | Commercial | Non-Participating | 346638.13 | 4757899.00 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 178 | Commercial | Non-Participating | 346798.85 | 4757875.82 | 7 | 17 | 17 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 187 | Commercial | Non-Participating | 347477.65 | 4758178.66 | 5 | 17 | 17 | 15 | 7 | 5 | 0 | 0 | 0 | 0 |
| 234 | Commercial | Non-Participating | 346136.84 | 4757367.45 | 11 | 19 | 19 | 18 | 12 | 11 | 4 | 0 | 0 | 0 |
| 235 | Commercial | Non-Participating | 345934.68 | 4757454.67 | 13 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 236 | Commercial | Non-Participating | 345867.83 | 4757414.61 | 15 | 26 | 25 | 20 | 13 | 14 | 10 | 1 | 0 | 0 |
| 238 | Commercial | Non-Participating | 345933.08 | 4757390.57 | 14 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 239 | Commercial | Non-Participating | 345971.71 | 4757415.41 | 14 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 240 | Commercial | Non-Participating | 345906.20 | 4757383.99 | 14 | 25 | 24 | 19 | 13 | 13 | 9 | 0 | 0 | 0 |
| 244 | Commercial | Non-Participating | 345850.62 | 4757566.42 | 11 | 19 | 19 | 19 | 12 | 11 | 4 | 0 | 0 | 0 |
| 245 | Commercial | Non-Participating | 345747.11 | 4757543.97 | 13 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 251 | Commercial | Non-Participating | 345371.11 | 4757441.21 | 14 | 24 | 24 | 20 | 14 | 14 | 8 | 0 | 0 | 0 |
| 252 | Commercial | Non-Participating | 344818.76 | 4757601.39 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 264 | Commercial | Non-Participating | 344798.66 | 4757009.04 | 19 | 30 | 29 | 23 | 17 | 18 | 14 | 7 | 0 | 0 |
| 274 | Commercial | Non-Participating | 344793.55 | 4756570.44 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 12 | 0 | 0 |
| 277 | Commercial | Non-Participating | 345004.06 | 4756490.45 | 25 | 33 | 32 | 25 | 19 | 22 | 21 | 18 | 0 | 0 |
| 284 | Commercial | Non-Participating | 344932.94 | 4756200.33 | 28 | 35 | 34 | 27 | 21 | 25 | 24 | 23 | 0 | 0 |
| 325 | Commercial | Non-Participating | 344525.27 | 4753501.86 | 14 | 21 | 21 | 20 | 14 | 13 | 7 | 0 | 0 | 0 |
| 338 | Commercial | Non-Participating | 345176.63 | 4754181.39 | 24 | 28 | 26 | 24 | 20 | 22 | 19 | 19 | 0 | 0 |
| 348 | Commercial | Non-Participating | 345535.90 | 4754142.25 | 25 | 28 | 27 | 25 | 21 | 22 | 20 | 20 | 2 | 0 |
| 356 | Commercial | Non-Participating | 345659.45 | 4753807.86 | 22 | 29 | 28 | 22 | 16 | 19 | 18 | 16 | 0 | 0 |
| 364 | Commercial | Non-Participating | 345956.40 | 4753781.81 | 20 | 28 | 26 | 21 | 15 | 18 | 16 | 14 | 0 | 0 |
| 379 | Commercial | Non-Participating | 346153.90 | 4753739.96 | 18 | 26 | 25 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 384 | Commercial | Non-Participating | 346320.19 | 4753639.65 | 17 | 27 | 26 | 19 | 13 | 16 | 13 | 9 | 0 | 0 |
| 392 | Commercial | Non-Participating | 346550.84 | 4753686.43 | 17 | 28 | 28 | 20 | 13 | 16 | 13 | 7 | 0 | 0 |
| 511 | Commercial | Non-Participating | 344401.54 | 4754320.87 | 20 | 30 | 31 | 24 | 18 | 19 | 15 | 9 | 0 | 0 |
| 524 | Commercial | Non-Participating | 343689.55 | 4754490.72 | 21 | 29 | 32 | 26 | 20 | 21 | 16 | 9 | 0 | 0 |
| 553 | Commercial | Non-Participating | 343176.17 | 4754070.99 | 21 | 29 | 28 | 23 | 18 | 19 | 16 | 13 | 0 | 0 |
| 556 | Commercial | Non-Participating | 343305.71 | 4753937.67 | 19 | 28 | 27 | 23 | 17 | 18 | 15 | 10 | 0 | 0 |
| 564 | Commercial | Non-Participating | 343121.12 | 4753820.99 | 20 | 28 | 27 | 23 | 17 | 18 | 15 | 11 | 0 | 0 |
| 675 | Commercial | Non-Participating | 343177.69 | 4756125.83 | 36 | 40 | 42 | 37 | 31 | 33 | 30 | 30 | 15 | 0 |
| 679 | Commercial | Non-Participating | 342513.32 | 4755776.71 | 33 | 37 | 41 | 37 | 31 | 32 | 28 | 24 | 3 | 0 |
| 711 | Commercial | Non-Participating | 340736.32 | 4755699.96 | 21 | 31 | 30 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 720 | Commercial | Non-Participating | 340451.09 | 4755446.24 | 18 | 28 | 27 | 23 | 17 | 17 | 13 | 5 | 0 | 0 |
| 723 | Commercial | Non-Participating | 341011.91 | 4755328.39 | 20 | 24 | 25 | 25 | 19 | 19 | 14 | 8 | 0 | 0 |
| 724 | Commercial | Non-Participating | 340950.52 | 4755259.91 | 19 | 24 | 24 | 24 | 19 | 18 | 13 | 7 | 0 | 0 |
| 730 | Commercial | Non-Participating | 341508.14 | 4755105.71 | 29 | 36 | 35 | 29 | 23 | 26 | 25 | 24 | 3 | 0 |
| 793 | Commercial | Non-Participating | 346361.62 | 4753669.49 | 17 | 27 | 26 | 19 | 13 | 15 | 13 | 9 | 0 | 0 |
| 801 | Commercial | Non-Participating | 344887.83 | 4755443.55 | 37 | 41 | 40 | 34 | 27 | 31 | 31 | 33 | 18 | 0 |

**Table 7-5.1e_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Commercial and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 813 | Commercial | Non-Participating | 346546.98 | 4758834.43 | 7 | 21 | 20 | 16 | 8 | 6 | 0 | 0 | 0 | 0 |
| 821 | Commercial | Non-Participating | 341926.97 | 4757423.64 | 28 | 34 | 37 | 31 | 25 | 27 | 23 | 18 | 0 | 0 |
| 825 | Commercial | Non-Participating | 345291.08 | 4757402.51 | 14 | 24 | 24 | 21 | 14 | 14 | 9 | 0 | 0 | 0 |
| 842 | Commercial | Non-Participating | 345264.92 | 4757436.12 | 14 | 24 | 24 | 21 | 14 | 14 | 8 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Commercial Receptors | | | | | | | | | | | | | | |
| **801** | **Commercial** | **Non-Participating** | **344887.83** | **4755443.55** | **37** | **41** | **40** | **34** | **27** | **31** | **31** | **33** | **18** | **0** |
| **187** | **Commercial** | **Non-Participating** | **347477.65** | **4758178.66** | **5** | **17** | **17** | **15** | **7** | **5** | **0** | **0** | **0** | **0** |

**Table 7-5.1f_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Commercial and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 801 | Commercial | Non-Participating | 344887.83 | 4755443.55 | 37 | 41 | 40 | 34 | 27 | 31 | 31 | 33 | 18 | 0 |
| 675 | Commercial | Non-Participating | 343177.69 | 4756125.83 | 36 | 40 | 42 | 37 | 31 | 33 | 30 | 30 | 15 | 0 |
| 679 | Commercial | Non-Participating | 342513.32 | 4755776.71 | 33 | 37 | 41 | 37 | 31 | 32 | 28 | 24 | 3 | 0 |
| 730 | Commercial | Non-Participating | 341508.14 | 4755105.71 | 29 | 36 | 35 | 29 | 23 | 26 | 25 | 24 | 3 | 0 |
| 284 | Commercial | Non-Participating | 344932.94 | 4756200.33 | 28 | 35 | 34 | 27 | 21 | 25 | 24 | 23 | 0 | 0 |
| 821 | Commercial | Non-Participating | 341926.97 | 4757423.64 | 28 | 34 | 37 | 31 | 25 | 27 | 23 | 18 | 0 | 0 |
| 134 | Commercial | Non-Participating | 342924.44 | 4757440.76 | 28 | 34 | 38 | 32 | 26 | 27 | 22 | 14 | 0 | 0 |
| 99 | Commercial | Non-Participating | 341600.85 | 4757373.60 | 27 | 35 | 37 | 30 | 24 | 26 | 23 | 19 | 0 | 0 |
| 100 | Commercial | Non-Participating | 341630.06 | 4757522.12 | 26 | 34 | 36 | 29 | 24 | 25 | 21 | 16 | 0 | 0 |
| 348 | Commercial | Non-Participating | 345535.90 | 4754142.25 | 25 | 28 | 27 | 25 | 21 | 22 | 20 | 20 | 2 | 0 |
| 135 | Commercial | Non-Participating | 343142.37 | 4757599.28 | 25 | 32 | 36 | 30 | 24 | 25 | 20 | 10 | 0 | 0 |
| 277 | Commercial | Non-Participating | 345004.06 | 4756490.45 | 25 | 33 | 32 | 25 | 19 | 22 | 21 | 18 | 0 | 0 |
| 139 | Commercial | Non-Participating | 343489.75 | 4757412.63 | 25 | 31 | 35 | 29 | 24 | 25 | 19 | 8 | 0 | 0 |
| 136 | Commercial | Non-Participating | 343358.76 | 4757584.46 | 24 | 32 | 35 | 29 | 23 | 24 | 19 | 9 | 0 | 0 |
| 338 | Commercial | Non-Participating | 345176.63 | 4754181.39 | 24 | 28 | 26 | 24 | 20 | 22 | 19 | 19 | 0 | 0 |
| 356 | Commercial | Non-Participating | 345659.45 | 4753807.86 | 22 | 29 | 28 | 22 | 16 | 19 | 18 | 16 | 0 | 0 |
| 524 | Commercial | Non-Participating | 343689.55 | 4754490.72 | 21 | 29 | 32 | 26 | 20 | 21 | 16 | 9 | 0 | 0 |
| 711 | Commercial | Non-Participating | 340736.32 | 4755699.96 | 21 | 31 | 30 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 553 | Commercial | Non-Participating | 343176.17 | 4754070.99 | 21 | 29 | 28 | 23 | 18 | 19 | 16 | 13 | 0 | 0 |
| 274 | Commercial | Non-Participating | 344793.55 | 4756570.44 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 12 | 0 | 0 |
| 511 | Commercial | Non-Participating | 344401.54 | 4754320.87 | 20 | 30 | 31 | 24 | 18 | 19 | 15 | 9 | 0 | 0 |
| 364 | Commercial | Non-Participating | 345956.40 | 4753781.81 | 20 | 28 | 26 | 21 | 15 | 18 | 16 | 14 | 0 | 0 |
| 564 | Commercial | Non-Participating | 343121.12 | 4753820.99 | 20 | 28 | 27 | 23 | 17 | 18 | 15 | 11 | 0 | 0 |
| 723 | Commercial | Non-Participating | 341011.91 | 4755328.39 | 20 | 24 | 25 | 25 | 19 | 19 | 14 | 8 | 0 | 0 |
| 556 | Commercial | Non-Participating | 343305.71 | 4753937.67 | 19 | 28 | 27 | 23 | 17 | 18 | 15 | 10 | 0 | 0 |
| 724 | Commercial | Non-Participating | 340950.52 | 4755259.91 | 19 | 24 | 24 | 24 | 19 | 18 | 13 | 7 | 0 | 0 |
| 264 | Commercial | Non-Participating | 344798.66 | 4757009.04 | 19 | 30 | 29 | 23 | 17 | 18 | 14 | 7 | 0 | 0 |
| 379 | Commercial | Non-Participating | 346153.90 | 4753739.96 | 18 | 26 | 25 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 720 | Commercial | Non-Participating | 340451.09 | 4755446.24 | 18 | 28 | 27 | 23 | 17 | 17 | 13 | 5 | 0 | 0 |
| 384 | Commercial | Non-Participating | 346320.19 | 4753639.65 | 17 | 27 | 26 | 19 | 13 | 16 | 13 | 9 | 0 | 0 |
| 793 | Commercial | Non-Participating | 346361.62 | 4753669.49 | 17 | 27 | 26 | 19 | 13 | 15 | 13 | 9 | 0 | 0 |
| 392 | Commercial | Non-Participating | 346550.84 | 4753686.43 | 17 | 28 | 28 | 20 | 13 | 16 | 13 | 7 | 0 | 0 |
| 236 | Commercial | Non-Participating | 345867.83 | 4757414.61 | 15 | 26 | 25 | 20 | 13 | 14 | 10 | 1 | 0 | 0 |
| 150 | Commercial | Non-Participating | 344770.28 | 4758677.02 | 15 | 27 | 29 | 22 | 15 | 15 | 7 | 0 | 0 | 0 |
| 825 | Commercial | Non-Participating | 345291.08 | 4757402.51 | 14 | 24 | 24 | 21 | 14 | 14 | 9 | 0 | 0 | 0 |
| 842 | Commercial | Non-Participating | 345264.92 | 4757436.12 | 14 | 24 | 24 | 21 | 14 | 14 | 8 | 0 | 0 | 0 |
| 251 | Commercial | Non-Participating | 345371.11 | 4757441.21 | 14 | 24 | 24 | 20 | 14 | 14 | 8 | 0 | 0 | 0 |
| 240 | Commercial | Non-Participating | 345906.20 | 4757383.99 | 14 | 25 | 24 | 19 | 13 | 13 | 9 | 0 | 0 | 0 |
| 238 | Commercial | Non-Participating | 345933.08 | 4757390.57 | 14 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 252 | Commercial | Non-Participating | 344818.76 | 4757601.39 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 325 | Commercial | Non-Participating | 344525.27 | 4753501.86 | 14 | 21 | 21 | 20 | 14 | 13 | 7 | 0 | 0 | 0 |
| 239 | Commercial | Non-Participating | 345971.71 | 4757415.41 | 14 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 235 | Commercial | Non-Participating | 345934.68 | 4757454.67 | 13 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 245 | Commercial | Non-Participating | 345747.11 | 4757543.97 | 13 | 25 | 24 | 19 | 13 | 13 | 8 | 0 | 0 | 0 |
| 244 | Commercial | Non-Participating | 345850.62 | 4757566.42 | 11 | 19 | 19 | 19 | 12 | 11 | 4 | 0 | 0 | 0 |
| 234 | Commercial | Non-Participating | 346136.84 | 4757367.45 | 11 | 19 | 19 | 18 | 12 | 11 | 4 | 0 | 0 | 0 |

**Table 7-5.1f_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Commercial and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 171 | Commercial | Non-Participating | 346638.13 | 4757899.00 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 178 | Commercial | Non-Participating | 346798.85 | 4757875.82 | 7 | 17 | 17 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 813 | Commercial | Non-Participating | 346546.98 | 4758834.43 | 7 | 21 | 20 | 16 | 8 | 6 | 0 | 0 | 0 | 0 |
| 187 | Commercial | Non-Participating | 347477.65 | 4758178.66 | 5 | 17 | 17 | 15 | 7 | 5 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Commercial Receptors | | | | | | | | | | | | | | |
| **801** | **Commercial** | **Non-Participating** | **344887.83** | **4755443.55** | **37** | **41** | **40** | **34** | **27** | **31** | **31** | **33** | **18** | **0** |
| **187** | **Commercial** | **Non-Participating** | **347477.65** | **4758178.66** | **5** | **17** | **17** | **15** | **7** | **5** | **0** | **0** | **0** | **0** |

**Table 7-5.1g_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Commercial and Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 293 | Commercial | Participating | 344749.17 | 4755684.68 | 37 | 41 | 40 | 34 | 27 | 32 | 32 | 33 | 19 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Commercial Receptors | | | | | | | | | | | | | | |
| **293** | **Commercial** | **Participating** | **344749.17** | **4755684.68** | **37** | **41** | **40** | **34** | **27** | **32** | **32** | **33** | **19** | **0** |
| **293** | **Commercial** | **Participating** | **344749.17** | **4755684.68** | **37** | **41** | **40** | **34** | **27** | **32** | **32** | **33** | **19** | **0** |

**Table 7-5.1h_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Commercial and Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 293 | Commercial | Participating | 344749.17 | 4755684.68 | 37 | 41 | 40 | 34 | 27 | 32 | 32 | 33 | 19 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Commercial Receptors | | | | | | | | | | | | | | |
| **293** | **Commercial** | **Participating** | **344749.17** | **4755684.68** | **37** | **41** | **40** | **34** | **27** | **32** | **32** | **33** | **19** | **0** |
| **293** | **Commercial** | **Participating** | **344749.17** | **4755684.68** | **37** | **41** | **40** | **34** | **27** | **32** | **32** | **33** | **19** | **0** |

**Table 7-5.1i_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Historic and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 785 | Historic | Non-Participating | 344693.09 | 4755824.20 | 33 | 39 | 38 | 31 | 24 | 29 | 28 | 29 | 11 | 0 |
| 818 | Historic | Non-Participating | 346451.19 | 4757670.61 | 10 | 22 | 21 | 18 | 11 | 10 | 4 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Historic Receptors | | | | | | | | | | | | | | |
| **785** | **Historic** | **Non-Participating** | **344693.09** | **4755824.20** | **33** | **39** | **38** | **31** | **24** | **29** | **28** | **29** | **11** | **0** |
| **818** | **Historic** | **Non-Participating** | **346451.19** | **4757670.61** | **10** | **22** | **21** | **18** | **11** | **10** | **4** | **0** | **0** | **0** |

**Table 7-5.1j_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Historic and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 785 | Historic | Non-Participating | 344693.09 | 4755824.20 | 33 | 39 | 38 | 31 | 24 | 29 | 28 | 29 | 11 | 0 |
| 818 | Historic | Non-Participating | 346451.19 | 4757670.61 | 10 | 22 | 21 | 18 | 11 | 10 | 4 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Historic Receptors | | | | | | | | | | | | | | |
| **785** | **Historic** | **Non-Participating** | **344693.09** | **4755824.20** | **33** | **39** | **38** | **31** | **24** | **29** | **28** | **29** | **11** | **0** |
| **818** | **Historic** | **Non-Participating** | **346451.19** | **4757670.61** | **10** | **22** | **21** | **18** | **11** | **10** | **4** | **0** | **0** | **0** |

**Table 7-5.1k_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Public and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 141 | Utility | Non-Participating | 342477.53 | 4757939.29 | 24 | 32 | 35 | 29 | 23 | 24 | 19 | 10 | 0 | 0 |
| 158 | Utility | Non-Participating | 346581.24 | 4758442.63 | 7 | 20 | 19 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 159 | Utility | Non-Participating | 346623.05 | 4758469.39 | 8 | 21 | 20 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 346 | Public | Non-Participating | 345450.83 | 4753952.87 | 21 | 25 | 24 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 436 | Utility | Non-Participating | 346086.73 | 4756429.09 | 22 | 32 | 30 | 22 | 16 | 20 | 18 | 15 | 0 | 0 |
| 767 | Utility | Non-Participating | 342740.84 | 4757544.57 | 27 | 33 | 37 | 31 | 26 | 27 | 22 | 14 | 0 | 0 |
| 796 | Utility | Non-Participating | 346091.44 | 4756431.83 | 22 | 31 | 30 | 22 | 16 | 20 | 18 | 15 | 0 | 0 |
| 817 | Utility | Non-Participating | 347166.99 | 4756157.66 | 10 | 19 | 18 | 17 | 11 | 10 | 4 | 0 | 0 | 0 |
| 839 | Utility | Non-Participating | 346422.36 | 4757581.45 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 849 | Utility | Non-Participating | 346581.75 | 4758466.87 | 7 | 20 | 19 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Public Receptors | | | | | | | | | | | | | | |
| **767** | **Utility** | **Non-Participating** | **342740.84** | **4757544.57** | **27** | **33** | **37** | **31** | **26** | **27** | **22** | **14** | **0** | **0** |
| **849** | **Utility** | **Non-Participating** | **346581.75** | **4758466.87** | **7** | **20** | **19** | **16** | **9** | **7** | **0** | **0** | **0** | **0** |

**Table 7-5.1l_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Public and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 767 | Utility | Non-Participating | 342740.84 | 4757544.57 | 27 | 33 | 37 | 31 | 26 | 27 | 22 | 14 | 0 | 0 |
| 141 | Utility | Non-Participating | 342477.53 | 4757939.29 | 24 | 32 | 35 | 29 | 23 | 24 | 19 | 10 | 0 | 0 |
| 436 | Utility | Non-Participating | 346086.73 | 4756429.09 | 22 | 32 | 30 | 22 | 16 | 20 | 18 | 15 | 0 | 0 |
| 796 | Utility | Non-Participating | 346091.44 | 4756431.83 | 22 | 31 | 30 | 22 | 16 | 20 | 18 | 15 | 0 | 0 |
| 346 | Public | Non-Participating | 345450.83 | 4753952.87 | 21 | 25 | 24 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 839 | Utility | Non-Participating | 346422.36 | 4757581.45 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 817 | Utility | Non-Participating | 347166.99 | 4756157.66 | 10 | 19 | 18 | 17 | 11 | 10 | 4 | 0 | 0 | 0 |
| 159 | Utility | Non-Participating | 346623.05 | 4758469.39 | 8 | 21 | 20 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 158 | Utility | Non-Participating | 346581.24 | 4758442.63 | 7 | 20 | 19 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 849 | Utility | Non-Participating | 346581.75 | 4758466.87 | 7 | 20 | 19 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Public Receptors | | | | | | | | | | | | | | |
| **767** | **Utility** | **Non-Participating** | **342740.84** | **4757544.57** | **27** | **33** | **37** | **31** | **26** | **27** | **22** | **14** | **0** | **0** |
| **849** | **Utility** | **Non-Participating** | **346581.75** | **4758466.87** | **7** | **20** | **19** | **16** | **9** | **7** | **0** | **0** | **0** | **0** |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 101 | Other | Non-Participating | 341636.21 | 4757359.02 | 27 | 34 | 36 | 30 | 25 | 26 | 22 | 18 | 0 | 0 |
| 106 | Other | Non-Participating | 341638.82 | 4757558.66 | 26 | 34 | 36 | 29 | 24 | 25 | 21 | 16 | 0 | 0 |
| 107 | Other | Non-Participating | 341720.85 | 4757563.42 | 26 | 33 | 36 | 29 | 24 | 25 | 21 | 15 | 0 | 0 |
| 108 | Other | Non-Participating | 341790.17 | 4757532.03 | 26 | 33 | 36 | 30 | 24 | 26 | 21 | 16 | 0 | 0 |
| 117 | Other | Non-Participating | 341910.84 | 4757778.16 | 24 | 29 | 34 | 29 | 23 | 24 | 18 | 8 | 0 | 0 |
| 119 | Other | Non-Participating | 341941.85 | 4757934.01 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 120 | Other | Non-Participating | 341973.47 | 4757970.08 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 9 | 0 | 0 |
| 121 | Other | Non-Participating | 342170.22 | 4757540.06 | 27 | 34 | 37 | 31 | 25 | 27 | 22 | 17 | 0 | 0 |
| 125 | Other | Non-Participating | 342407.31 | 4757472.85 | 26 | 33 | 32 | 29 | 24 | 24 | 21 | 17 | 0 | 0 |
| 126 | Other | Non-Participating | 342486.00 | 4757551.05 | 24 | 31 | 31 | 29 | 23 | 23 | 19 | 15 | 0 | 0 |
| 127 | Other | Non-Participating | 342524.72 | 4757544.46 | 23 | 27 | 29 | 29 | 23 | 23 | 17 | 10 | 0 | 0 |
| 130 | Other | Non-Participating | 342412.99 | 4757531.66 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 131 | Other | Non-Participating | 342396.25 | 4757527.40 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 132 | Other | Non-Participating | 342414.32 | 4757584.44 | 25 | 32 | 32 | 28 | 23 | 23 | 19 | 15 | 0 | 0 |
| 137 | Uninhabitable Structure | Non-Participating | 343253.54 | 4757472.18 | 26 | 32 | 36 | 30 | 25 | 26 | 20 | 10 | 0 | 0 |
| 138 | Other | Non-Participating | 343519.28 | 4757383.43 | 25 | 31 | 35 | 29 | 24 | 25 | 19 | 8 | 0 | 0 |
| 140 | Other | Non-Participating | 343593.39 | 4757476.42 | 24 | 31 | 35 | 29 | 23 | 24 | 18 | 7 | 0 | 0 |
| 143 | Other | Non-Participating | 342664.10 | 4756837.57 | 37 | 41 | 45 | 41 | 34 | 36 | 32 | 28 | 11 | 0 |
| 144 | Other | Non-Participating | 343108.28 | 4756548.31 | 34 | 39 | 43 | 38 | 32 | 34 | 29 | 23 | 3 | 0 |
| 147 | Other | Non-Participating | 344668.06 | 4758223.42 | 12 | 19 | 20 | 20 | 14 | 12 | 3 | 0 | 0 | 0 |
| 148 | Other | Non-Participating | 344814.31 | 4758346.14 | 16 | 27 | 29 | 22 | 16 | 16 | 8 | 0 | 0 | 0 |
| 154 | Other | Non-Participating | 346546.71 | 4758698.24 | 7 | 19 | 19 | 16 | 8 | 6 | 0 | 0 | 0 | 0 |
| 155 | Other | Non-Participating | 346510.62 | 4758808.69 | 7 | 21 | 20 | 16 | 8 | 7 | 0 | 0 | 0 | 0 |
| 164 | Other | Non-Participating | 346558.68 | 4758092.37 | 10 | 24 | 22 | 17 | 10 | 10 | 3 | 0 | 0 | 0 |
| 165 | Other | Non-Participating | 346607.61 | 4757989.47 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 166 | Other | Non-Participating | 346594.48 | 4758148.35 | 8 | 21 | 20 | 17 | 9 | 8 | 1 | 0 | 0 | 0 |
| 167 | Other | Non-Participating | 346568.66 | 4757953.94 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 175 | Other | Non-Participating | 346684.68 | 4758030.57 | 10 | 24 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 176 | Other | Non-Participating | 346790.46 | 4758018.25 | 10 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 177 | Other | Non-Participating | 346744.85 | 4758056.63 | 9 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 180 | Other | Non-Participating | 346878.61 | 4757912.60 | 7 | 17 | 17 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 184 | Other | Non-Participating | 347004.24 | 4758110.86 | 9 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 185 | Other | Non-Participating | 347225.41 | 4757942.58 | 9 | 24 | 22 | 16 | 9 | 9 | 3 | 0 | 0 | 0 |
| 188 | Other | Non-Participating | 347479.42 | 4758337.78 | 5 | 15 | 15 | 14 | 7 | 4 | 0 | 0 | 0 | 0 |
| 189 | Other | Non-Participating | 347460.41 | 4758177.07 | 5 | 15 | 16 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 193 | Other | Non-Participating | 346492.56 | 4757737.31 | 10 | 22 | 21 | 17 | 11 | 10 | 4 | 0 | 0 | 0 |
| 202 | Other | Non-Participating | 346447.38 | 4757544.52 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 203 | Other | Non-Participating | 346532.00 | 4757558.29 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 204 | Other | Non-Participating | 346598.85 | 4757524.80 | 12 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 205 | Other | Non-Participating | 346575.86 | 4757453.72 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 206 | Other | Non-Participating | 346652.37 | 4757531.85 | 11 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 207 | Other | Non-Participating | 346621.58 | 4757421.38 | 12 | 25 | 23 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 208 | Other | Non-Participating | 346710.58 | 4757480.64 | 9 | 18 | 18 | 17 | 10 | 9 | 1 | 0 | 0 | 0 |
| 209 | Other | Non-Participating | 346691.14 | 4757371.22 | 12 | 25 | 23 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 210 | Other | Non-Participating | 346776.72 | 4757329.07 | 11 | 23 | 22 | 17 | 11 | 11 | 5 | 0 | 0 | 0 |
| 211 | Other | Non-Participating | 346860.04 | 4757434.51 | 10 | 22 | 21 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 219 | Other | Non-Participating | 347030.12 | 4757291.60 | 8 | 17 | 17 | 16 | 10 | 8 | 0 | 0 | 0 | 0 |
| 220 | Other | Non-Participating | 347053.57 | 4757325.00 | 8 | 17 | 17 | 16 | 9 | 8 | 0 | 0 | 0 | 0 |
| 221 | Other | Non-Participating | 347254.65 | 4757180.75 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 224 | Other | Non-Participating | 346984.29 | 4757198.04 | 11 | 24 | 22 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 225 | Other | Non-Participating | 347480.78 | 4757039.38 | 10 | 24 | 22 | 16 | 9 | 9 | 4 | 0 | 0 | 0 |
| 226 | Other | Non-Participating | 347424.93 | 4756881.20 | 10 | 24 | 23 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 227 | Other | Non-Participating | 347635.58 | 4756869.86 | 9 | 24 | 22 | 16 | 9 | 9 | 4 | 0 | 0 | 0 |
| 233 | Other | Non-Participating | 346166.73 | 4757596.27 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 246 | Other | Non-Participating | 345820.18 | 4757533.42 | 14 | 26 | 25 | 20 | 13 | 14 | 9 | 0 | 0 | 0 |
| 247 | Other | Non-Participating | 345605.29 | 4757515.31 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 248 | Other | Non-Participating | 345633.26 | 4757422.62 | 13 | 23 | 22 | 20 | 13 | 13 | 8 | 0 | 0 | 0 |
| 253 | Other | Non-Participating | 344861.01 | 4757625.27 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 254 | Other | Non-Participating | 344866.21 | 4757593.95 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 256 | Other | Non-Participating | 344774.52 | 4757418.40 | 15 | 26 | 25 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 257 | Other | Non-Participating | 344766.71 | 4757471.68 | 15 | 27 | 26 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 259 | Other | Non-Participating | 344703.74 | 4757337.39 | 17 | 28 | 27 | 23 | 16 | 16 | 11 | 0 | 0 | 0 |
| 260 | Other | Non-Participating | 344734.01 | 4757259.77 | 17 | 28 | 27 | 23 | 17 | 17 | 11 | 1 | 0 | 0 |
| 261 | Other | Non-Participating | 344786.13 | 4757085.80 | 18 | 30 | 29 | 23 | 17 | 18 | 13 | 6 | 0 | 0 |
| 262 | Other | Non-Participating | 344764.27 | 4757088.47 | 18 | 30 | 29 | 23 | 17 | 18 | 13 | 6 | 0 | 0 |
| 265 | Other | Non-Participating | 344811.08 | 4757000.15 | 20 | 32 | 30 | 24 | 18 | 19 | 16 | 9 | 0 | 0 |
| 266 | Other | Non-Participating | 344797.61 | 4756993.62 | 19 | 31 | 29 | 23 | 17 | 19 | 15 | 8 | 0 | 0 |
| 267 | Other | Non-Participating | 344865.97 | 4756968.82 | 20 | 32 | 30 | 23 | 17 | 19 | 16 | 10 | 0 | 0 |
| 271 | Other | Non-Participating | 344909.83 | 4756795.15 | 20 | 30 | 29 | 23 | 17 | 19 | 16 | 11 | 0 | 0 |
| 272 | Other | Non-Participating | 344941.64 | 4756826.27 | 20 | 30 | 28 | 23 | 17 | 19 | 15 | 11 | 0 | 0 |
| 275 | Other | Non-Participating | 344825.49 | 4756553.31 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 13 | 0 | 0 |
| 276 | Other | Non-Participating | 344939.01 | 4756445.84 | 25 | 34 | 32 | 25 | 19 | 23 | 21 | 19 | 0 | 0 |
| 279 | Other | Non-Participating | 345019.66 | 4756516.59 | 25 | 33 | 32 | 25 | 19 | 22 | 20 | 18 | 0 | 0 |
| 280 | Other | Non-Participating | 344787.29 | 4756545.65 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 13 | 0 | 0 |
| 281 | Other | Non-Participating | 344815.95 | 4756569.78 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 12 | 0 | 0 |
| 282 | Other | Non-Participating | 344950.77 | 4756227.93 | 28 | 35 | 34 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 283 | Other | Non-Participating | 344989.35 | 4756229.17 | 28 | 35 | 33 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 288 | Other | Non-Participating | 344767.25 | 4755988.63 | 30 | 36 | 35 | 28 | 22 | 26 | 25 | 25 | 5 | 0 |
| 289 | Other | Non-Participating | 344807.68 | 4755920.98 | 32 | 37 | 37 | 30 | 24 | 27 | 27 | 27 | 9 | 0 |
| 290 | Other | Non-Participating | 344795.37 | 4755873.21 | 32 | 38 | 37 | 31 | 24 | 28 | 27 | 28 | 11 | 0 |
| 298 | Other | Non-Participating | 344893.11 | 4755526.71 | 38 | 42 | 41 | 35 | 28 | 32 | 32 | 34 | 20 | 0 |
| 299 | Other | Non-Participating | 344920.16 | 4755501.02 | 37 | 41 | 40 | 34 | 27 | 32 | 32 | 34 | 19 | 0 |
| 302 | Other | Non-Participating | 344908.55 | 4755343.86 | 34 | 39 | 38 | 32 | 25 | 29 | 29 | 30 | 13 | 0 |
| 303 | Other | Non-Participating | 344819.03 | 4755249.54 | 33 | 38 | 38 | 30 | 24 | 28 | 28 | 28 | 10 | 0 |
| 304 | Other | Non-Participating | 344789.02 | 4755222.57 | 32 | 37 | 37 | 30 | 23 | 27 | 26 | 27 | 9 | 0 |
| 305 | Other | Non-Participating | 344850.81 | 4754826.77 | 28 | 36 | 35 | 27 | 21 | 25 | 24 | 22 | 0 | 0 |
| 308 | Other | Non-Participating | 344713.66 | 4754459.12 | 26 | 34 | 34 | 26 | 20 | 23 | 22 | 20 | 0 | 0 |
| 309 | Other | Non-Participating | 344680.20 | 4754437.71 | 25 | 33 | 33 | 25 | 20 | 22 | 20 | 18 | 0 | 0 |
| 310 | Other | Non-Participating | 344747.53 | 4754482.09 | 26 | 35 | 34 | 26 | 20 | 24 | 22 | 20 | 0 | 0 |
| 318 | Other | Non-Participating | 344811.62 | 4754291.63 | 26 | 33 | 33 | 25 | 20 | 23 | 21 | 20 | 0 | 0 |
| 319 | Other | Non-Participating | 344882.94 | 4754171.86 | 20 | 25 | 25 | 23 | 18 | 19 | 15 | 13 | 0 | 0 |
| 320 | Other | Non-Participating | 344918.12 | 4754201.49 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 14 | 0 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 321 | Other | Non-Participating | 344567.58 | 4754140.02 | 17 | 23 | 23 | 22 | 16 | 16 | 12 | 8 | 0 | 0 |
| 322 | Other | Non-Participating | 344644.92 | 4754005.43 | 17 | 23 | 22 | 21 | 16 | 16 | 12 | 7 | 0 | 0 |
| 326 | Other | Non-Participating | 344512.99 | 4753560.32 | 14 | 21 | 21 | 20 | 14 | 14 | 8 | 1 | 0 | 0 |
| 328 | Other | Non-Participating | 344565.33 | 4753686.02 | 15 | 22 | 21 | 20 | 14 | 14 | 9 | 3 | 0 | 0 |
| 329 | Other | Non-Participating | 345073.91 | 4754155.12 | 23 | 27 | 26 | 24 | 19 | 20 | 17 | 16 | 0 | 0 |
| 330 | Other | Non-Participating | 345089.96 | 4754058.13 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 331 | Other | Non-Participating | 344980.91 | 4754190.87 | 22 | 26 | 25 | 23 | 18 | 20 | 16 | 15 | 0 | 0 |
| 332 | Other | Non-Participating | 345044.69 | 4754128.22 | 22 | 26 | 25 | 23 | 18 | 20 | 16 | 15 | 0 | 0 |
| 339 | Other | Non-Participating | 345198.65 | 4754187.27 | 29 | 35 | 34 | 28 | 21 | 25 | 24 | 25 | 7 | 0 |
| 340 | Other | Non-Participating | 345124.54 | 4754156.43 | 23 | 27 | 26 | 24 | 19 | 21 | 18 | 17 | 0 | 0 |
| 341 | Other | Non-Participating | 345122.75 | 4754128.01 | 23 | 27 | 26 | 24 | 19 | 20 | 17 | 17 | 0 | 0 |
| 349 | Other | Non-Participating | 345468.52 | 4754241.49 | 35 | 39 | 38 | 32 | 25 | 29 | 29 | 31 | 15 | 0 |
| 350 | Other | Non-Participating | 345456.53 | 4754231.09 | 28 | 30 | 29 | 27 | 23 | 25 | 22 | 23 | 7 | 0 |
| 351 | Other | Non-Participating | 345481.43 | 4754216.46 | 27 | 29 | 28 | 26 | 22 | 24 | 22 | 23 | 6 | 0 |
| 352 | Other | Non-Participating | 345441.61 | 4754107.83 | 25 | 27 | 26 | 24 | 20 | 22 | 19 | 19 | 0 | 0 |
| 353 | Other | Non-Participating | 345480.55 | 4754086.25 | 24 | 27 | 26 | 24 | 20 | 21 | 19 | 19 | 0 | 0 |
| 354 | Other | Non-Participating | 345673.01 | 4753776.13 | 22 | 29 | 27 | 22 | 16 | 19 | 17 | 16 | 0 | 0 |
| 355 | Other | Non-Participating | 345694.91 | 4753789.88 | 22 | 29 | 27 | 22 | 16 | 19 | 17 | 16 | 0 | 0 |
| 362 | Other | Non-Participating | 345746.28 | 4754023.86 | 26 | 31 | 30 | 24 | 18 | 22 | 21 | 21 | 0 | 0 |
| 363 | Other | Non-Participating | 345908.14 | 4753900.95 | 22 | 29 | 28 | 22 | 16 | 19 | 17 | 16 | 0 | 0 |
| 371 | Other | Non-Participating | 346126.61 | 4753721.84 | 18 | 26 | 25 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 372 | Other | Non-Participating | 346115.11 | 4753686.04 | 18 | 26 | 25 | 20 | 14 | 16 | 14 | 10 | 0 | 0 |
| 373 | Other | Non-Participating | 346129.47 | 4753686.53 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 374 | Other | Non-Participating | 346145.23 | 4753694.29 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 375 | Other | Non-Participating | 346156.59 | 4753695.59 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 376 | Other | Non-Participating | 346154.40 | 4753659.62 | 17 | 26 | 25 | 19 | 14 | 15 | 13 | 10 | 0 | 0 |
| 377 | Other | Non-Participating | 346135.13 | 4753639.08 | 17 | 26 | 25 | 19 | 14 | 15 | 13 | 10 | 0 | 0 |
| 378 | Other | Non-Participating | 346212.13 | 4753716.45 | 19 | 28 | 26 | 20 | 14 | 17 | 15 | 11 | 0 | 0 |
| 380 | Other | Non-Participating | 346180.30 | 4753724.35 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 381 | Other | Non-Participating | 346273.72 | 4753791.34 | 19 | 28 | 27 | 20 | 14 | 17 | 15 | 11 | 0 | 0 |
| 385 | Other | Non-Participating | 346380.18 | 4753609.00 | 17 | 27 | 25 | 19 | 13 | 15 | 13 | 8 | 0 | 0 |
| 386 | Other | Non-Participating | 346297.94 | 4753637.63 | 18 | 27 | 26 | 19 | 13 | 16 | 13 | 9 | 0 | 0 |
| 387 | Other | Non-Participating | 346525.49 | 4753600.78 | 16 | 27 | 26 | 18 | 12 | 15 | 12 | 6 | 0 | 0 |
| 393 | Other | Non-Participating | 346467.99 | 4753730.90 | 15 | 25 | 24 | 18 | 13 | 14 | 11 | 5 | 0 | 0 |
| 394 | Other | Non-Participating | 346467.08 | 4753763.79 | 14 | 24 | 22 | 18 | 12 | 13 | 9 | 3 | 0 | 0 |
| 395 | Other | Non-Participating | 346434.80 | 4753794.52 | 16 | 24 | 23 | 19 | 13 | 14 | 11 | 6 | 0 | 0 |
| 396 | Other | Non-Participating | 346579.32 | 4753782.24 | 17 | 27 | 25 | 19 | 13 | 15 | 12 | 7 | 0 | 0 |
| 406 | Other | Non-Participating | 346238.75 | 4754001.51 | 21 | 30 | 29 | 21 | 15 | 19 | 17 | 14 | 0 | 0 |
| 407 | Other | Non-Participating | 346238.89 | 4754057.50 | 22 | 30 | 29 | 21 | 16 | 19 | 17 | 15 | 0 | 0 |
| 420 | Other | Non-Participating | 346146.04 | 4754750.99 | 26 | 34 | 33 | 24 | 19 | 23 | 22 | 20 | 0 | 0 |
| 421 | Other | Non-Participating | 346081.66 | 4754774.72 | 27 | 35 | 33 | 25 | 19 | 24 | 23 | 22 | 0 | 0 |
| 423 | Other | Non-Participating | 346197.88 | 4754934.44 | 23 | 31 | 30 | 23 | 17 | 20 | 19 | 17 | 0 | 0 |
| 424 | Other | Non-Participating | 346154.81 | 4754893.86 | 26 | 34 | 32 | 24 | 18 | 22 | 21 | 20 | 0 | 0 |
| 425 | Other | Non-Participating | 346150.04 | 4754915.26 | 26 | 34 | 32 | 24 | 18 | 22 | 21 | 20 | 0 | 0 |
| 431 | Other | Non-Participating | 346134.88 | 4755257.61 | 25 | 33 | 32 | 24 | 19 | 22 | 21 | 19 | 0 | 0 |
| 432 | Other | Non-Participating | 346030.04 | 4755281.80 | 27 | 34 | 33 | 25 | 19 | 23 | 22 | 21 | 0 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 433 | Other | Non-Participating | 346057.30 | 4755193.94 | 26 | 34 | 33 | 25 | 19 | 23 | 22 | 20 | 0 | 0 |
| 437 | Other | Non-Participating | 346115.11 | 4756534.65 | 21 | 30 | 29 | 22 | 16 | 19 | 17 | 13 | 0 | 0 |
| 438 | Other | Non-Participating | 346117.93 | 4756554.99 | 21 | 31 | 29 | 22 | 16 | 19 | 17 | 13 | 0 | 0 |
| 439 | Other | Non-Participating | 346173.55 | 4756623.20 | 20 | 30 | 28 | 21 | 15 | 18 | 15 | 11 | 0 | 0 |
| 447 | Other | Non-Participating | 346241.04 | 4756741.66 | 18 | 29 | 27 | 20 | 14 | 17 | 14 | 9 | 0 | 0 |
| 448 | Other | Non-Participating | 346222.91 | 4756877.73 | 17 | 27 | 26 | 20 | 14 | 15 | 12 | 6 | 0 | 0 |
| 453 | Other | Non-Participating | 346917.07 | 4757135.20 | 13 | 26 | 25 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 454 | Other | Non-Participating | 346989.92 | 4757109.18 | 12 | 25 | 24 | 17 | 11 | 11 | 7 | 0 | 0 | 0 |
| 458 | Other | Non-Participating | 346936.05 | 4757011.59 | 12 | 25 | 23 | 18 | 11 | 11 | 7 | 0 | 0 | 0 |
| 459 | Other | Non-Participating | 346945.50 | 4756899.73 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 464 | Other | Non-Participating | 346953.72 | 4756818.92 | 13 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 465 | Other | Non-Participating | 347072.51 | 4756840.73 | 12 | 25 | 24 | 17 | 11 | 11 | 7 | 0 | 0 | 0 |
| 466 | Other | Non-Participating | 346949.68 | 4756830.56 | 13 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 472 | Other | Non-Participating | 346973.97 | 4756666.07 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 473 | Other | Non-Participating | 346960.27 | 4756666.03 | 13 | 25 | 24 | 18 | 12 | 12 | 8 | 0 | 0 | 0 |
| 475 | Other | Non-Participating | 347014.28 | 4756511.93 | 13 | 25 | 24 | 18 | 12 | 13 | 8 | 0 | 0 | 0 |
| 478 | Other | Non-Participating | 347017.73 | 4756325.28 | 15 | 27 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 479 | Other | Non-Participating | 347083.94 | 4756324.61 | 15 | 28 | 26 | 18 | 12 | 14 | 11 | 2 | 0 | 0 |
| 480 | Other | Non-Participating | 346989.18 | 4756319.19 | 15 | 27 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 483 | Other | Non-Participating | 347154.60 | 4756312.38 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 484 | Other | Non-Participating | 346968.34 | 4756205.45 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 5 | 0 | 0 |
| 491 | Other | Non-Participating | 347087.55 | 4756055.27 | 15 | 28 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 492 | Other | Non-Participating | 347240.78 | 4756079.78 | 14 | 27 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 493 | Other | Non-Participating | 347168.83 | 4756008.40 | 15 | 27 | 26 | 18 | 12 | 14 | 11 | 3 | 0 | 0 |
| 495 | Other | Non-Participating | 347148.75 | 4755895.26 | 15 | 27 | 26 | 18 | 12 | 14 | 11 | 3 | 0 | 0 |
| 498 | Other | Non-Participating | 347136.66 | 4755555.83 | 15 | 26 | 25 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 499 | Other | Non-Participating | 347149.21 | 4755240.94 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 504 | Other | Non-Participating | 347198.36 | 4755087.85 | 16 | 28 | 26 | 18 | 12 | 15 | 12 | 4 | 0 | 0 |
| 505 | Other | Non-Participating | 347139.80 | 4755153.96 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 4 | 0 | 0 |
| 506 | Other | Non-Participating | 347103.94 | 4755080.43 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 5 | 0 | 0 |
| 509 | Other | Non-Participating | 347350.43 | 4754630.54 | 14 | 26 | 25 | 17 | 11 | 13 | 9 | 0 | 0 | 0 |
| 510 | Other | Non-Participating | 347322.58 | 4754671.97 | 15 | 27 | 26 | 18 | 11 | 14 | 10 | 2 | 0 | 0 |
| 515 | Other | Non-Participating | 344450.74 | 4754181.09 | 19 | 29 | 30 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 516 | Other | Non-Participating | 344400.70 | 4754200.58 | 19 | 29 | 30 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 522 | Other | Non-Participating | 343632.81 | 4754457.08 | 22 | 30 | 32 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 523 | Other | Non-Participating | 343666.72 | 4754439.80 | 21 | 30 | 32 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 529 | Other | Non-Participating | 343205.32 | 4754634.41 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 18 | 0 | 0 |
| 530 | Other | Non-Participating | 343149.67 | 4754608.36 | 25 | 32 | 31 | 26 | 21 | 22 | 20 | 18 | 0 | 0 |
| 531 | Other | Non-Participating | 343280.08 | 4754690.07 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 532 | Other | Non-Participating | 343245.41 | 4754692.62 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 18 | 0 | 0 |
| 533 | Other | Non-Participating | 343209.96 | 4754703.75 | 25 | 31 | 30 | 26 | 21 | 22 | 20 | 18 | 0 | 0 |
| 547 | Other | Non-Participating | 343029.50 | 4754388.07 | 21 | 28 | 27 | 25 | 20 | 20 | 16 | 13 | 0 | 0 |
| 548 | Other | Non-Participating | 343117.15 | 4754320.33 | 22 | 29 | 29 | 25 | 19 | 20 | 17 | 14 | 0 | 0 |
| 549 | Other | Non-Participating | 343220.98 | 4754152.42 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 13 | 0 | 0 |
| 550 | Other | Non-Participating | 343168.54 | 4754094.91 | 21 | 30 | 28 | 24 | 18 | 19 | 17 | 13 | 0 | 0 |
| 557 | Other | Non-Participating | 343320.65 | 4753763.46 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 558 | Other | Non-Participating | 343327.39 | 4753742.89 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 559 | Other | Non-Participating | 343270.44 | 4753673.11 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 565 | Other | Non-Participating | 343115.80 | 4753781.23 | 20 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 566 | Other | Non-Participating | 343116.15 | 4753767.52 | 20 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 567 | Other | Non-Participating | 343095.80 | 4753736.86 | 19 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 568 | Other | Non-Participating | 343094.73 | 4753745.10 | 19 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 569 | Other | Non-Participating | 343158.43 | 4753507.44 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 572 | Other | Non-Participating | 343088.89 | 4753515.44 | 18 | 27 | 26 | 21 | 16 | 17 | 13 | 8 | 0 | 0 |
| 573 | Other | Non-Participating | 343045.01 | 4753512.61 | 18 | 27 | 26 | 22 | 16 | 17 | 14 | 9 | 0 | 0 |
| 578 | Other | Non-Participating | 342634.16 | 4753480.18 | 20 | 28 | 27 | 22 | 16 | 18 | 15 | 12 | 0 | 0 |
| 579 | Other | Non-Participating | 342522.08 | 4753475.59 | 20 | 29 | 27 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 580 | Other | Non-Participating | 342514.53 | 4753494.91 | 20 | 29 | 28 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 584 | Other | Non-Participating | 342381.91 | 4753601.69 | 22 | 30 | 29 | 23 | 17 | 19 | 18 | 16 | 0 | 0 |
| 585 | Other | Non-Participating | 342514.83 | 4753168.41 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 588 | Other | Non-Participating | 342283.37 | 4753805.95 | 26 | 32 | 31 | 25 | 19 | 22 | 21 | 20 | 0 | 0 |
| 589 | Other | Non-Participating | 342120.26 | 4753688.24 | 23 | 31 | 29 | 24 | 18 | 20 | 19 | 17 | 0 | 0 |
| 596 | Other | Non-Participating | 341480.12 | 4753622.44 | 19 | 29 | 28 | 22 | 16 | 18 | 15 | 11 | 0 | 0 |
| 597 | Other | Non-Participating | 341391.40 | 4753593.61 | 19 | 29 | 28 | 21 | 16 | 17 | 15 | 10 | 0 | 0 |
| 605 | Other | Non-Participating | 341433.02 | 4753494.69 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 9 | 0 | 0 |
| 606 | Other | Non-Participating | 341440.92 | 4753417.23 | 18 | 28 | 27 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 607 | Other | Non-Participating | 341354.39 | 4753359.98 | 17 | 28 | 27 | 21 | 14 | 16 | 13 | 7 | 0 | 0 |
| 608 | Other | Non-Participating | 341406.24 | 4753242.75 | 17 | 28 | 27 | 20 | 14 | 16 | 13 | 6 | 0 | 0 |
| 613 | Other | Non-Participating | 341211.46 | 4753675.51 | 16 | 25 | 24 | 21 | 15 | 15 | 11 | 6 | 0 | 0 |
| 614 | Other | Non-Participating | 341247.15 | 4753614.44 | 16 | 24 | 24 | 21 | 15 | 15 | 10 | 4 | 0 | 0 |
| 615 | Other | Non-Participating | 341224.27 | 4753617.89 | 16 | 26 | 25 | 21 | 15 | 15 | 11 | 5 | 0 | 0 |
| 618 | Other | Non-Participating | 342037.80 | 4754019.59 | 29 | 35 | 33 | 27 | 21 | 25 | 24 | 25 | 5 | 0 |
| 620 | Other | Non-Participating | 342038.39 | 4754522.85 | 36 | 40 | 39 | 33 | 26 | 30 | 30 | 32 | 16 | 0 |
| 621 | Other | Non-Participating | 341928.42 | 4754529.25 | 33 | 38 | 37 | 30 | 24 | 28 | 28 | 28 | 10 | 0 |
| 625 | Other | Non-Participating | 342026.95 | 4754978.19 | 35 | 39 | 38 | 33 | 26 | 30 | 30 | 31 | 13 | 0 |
| 626 | Other | Non-Participating | 342067.63 | 4755028.89 | 36 | 41 | 39 | 34 | 27 | 31 | 31 | 32 | 15 | 0 |
| 627 | Other | Non-Participating | 342722.30 | 4754359.22 | 28 | 34 | 33 | 28 | 22 | 25 | 23 | 23 | 2 | 0 |
| 635 | Other | Non-Participating | 342628.45 | 4754555.66 | 32 | 38 | 36 | 30 | 24 | 28 | 27 | 27 | 8 | 0 |
| 637 | Other | Non-Participating | 342552.39 | 4754613.72 | 33 | 38 | 37 | 31 | 25 | 29 | 28 | 29 | 11 | 0 |
| 638 | Other | Non-Participating | 342484.80 | 4754584.08 | 35 | 40 | 39 | 33 | 26 | 30 | 30 | 31 | 15 | 0 |
| 639 | Other | Non-Participating | 342589.52 | 4754559.86 | 32 | 37 | 36 | 30 | 24 | 28 | 27 | 27 | 9 | 0 |
| 640 | Other | Non-Participating | 342885.36 | 4754674.89 | 29 | 34 | 33 | 28 | 23 | 25 | 24 | 24 | 5 | 0 |
| 641 | Other | Non-Participating | 342915.65 | 4754677.48 | 29 | 34 | 33 | 28 | 22 | 25 | 23 | 24 | 5 | 0 |
| 642 | Other | Non-Participating | 342899.92 | 4754705.31 | 29 | 34 | 33 | 29 | 23 | 25 | 24 | 25 | 6 | 0 |
| 643 | Other | Non-Participating | 342936.44 | 4754582.73 | 27 | 33 | 32 | 27 | 22 | 24 | 22 | 21 | 0 | 0 |
| 644 | Other | Non-Participating | 342902.91 | 4754552.21 | 27 | 33 | 31 | 27 | 22 | 24 | 22 | 21 | 0 | 0 |
| 651 | Other | Non-Participating | 343117.64 | 4754854.71 | 27 | 34 | 33 | 28 | 22 | 24 | 22 | 22 | 1 | 0 |
| 652 | Other | Non-Participating | 343126.59 | 4755042.36 | 28 | 34 | 33 | 28 | 23 | 25 | 23 | 22 | 2 | 0 |
| 654 | Other | Non-Participating | 343167.07 | 4755010.44 | 27 | 33 | 32 | 28 | 22 | 24 | 22 | 21 | 0 | 0 |
| 655 | Other | Non-Participating | 342965.10 | 4755217.41 | 31 | 37 | 36 | 31 | 25 | 27 | 26 | 26 | 7 | 0 |
| 656 | Other | Non-Participating | 342995.24 | 4755211.87 | 29 | 34 | 33 | 30 | 24 | 26 | 24 | 24 | 5 | 0 |
| 657 | Other | Non-Participating | 342994.32 | 4755186.61 | 31 | 37 | 35 | 30 | 24 | 27 | 26 | 26 | 6 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 660 | Other | Non-Participating | 342963.36 | 4755508.64 | 30 | 35 | 38 | 33 | 27 | 29 | 25 | 21 | 0 | 0 |
| 664 | Other | Non-Participating | 343122.56 | 4755631.04 | 30 | 35 | 38 | 33 | 27 | 29 | 25 | 22 | 0 | 0 |
| 665 | Other | Non-Participating | 343119.14 | 4755740.90 | 30 | 34 | 34 | 32 | 26 | 27 | 24 | 24 | 6 | 0 |
| 666 | Other | Non-Participating | 343088.05 | 4755762.29 | 31 | 35 | 34 | 32 | 26 | 28 | 25 | 25 | 7 | 0 |
| 668 | Other | Non-Participating | 343017.28 | 4755917.05 | 36 | 39 | 38 | 35 | 29 | 31 | 30 | 32 | 19 | 0 |
| 669 | Other | Non-Participating | 343252.25 | 4755818.11 | 31 | 36 | 39 | 34 | 28 | 30 | 26 | 24 | 5 | 0 |
| 677 | Other | Non-Participating | 343182.49 | 4756198.89 | 35 | 39 | 42 | 37 | 31 | 33 | 30 | 29 | 13 | 0 |
| 683 | Other | Non-Participating | 341984.88 | 4756008.44 | 36 | 40 | 39 | 35 | 29 | 32 | 30 | 32 | 17 | 0 |
| 689 | Other | Non-Participating | 341734.67 | 4756116.89 | 32 | 38 | 37 | 32 | 27 | 29 | 27 | 26 | 5 | 0 |
| 690 | Other | Non-Participating | 341753.78 | 4756118.84 | 32 | 38 | 37 | 33 | 27 | 29 | 27 | 26 | 5 | 0 |
| 691 | Other | Non-Participating | 341729.49 | 4756133.16 | 32 | 38 | 37 | 32 | 27 | 29 | 27 | 26 | 5 | 0 |
| 696 | Other | Non-Participating | 340910.09 | 4756372.24 | 21 | 29 | 29 | 26 | 20 | 20 | 16 | 9 | 0 | 0 |
| 697 | Other | Non-Participating | 340776.16 | 4756045.97 | 19 | 25 | 25 | 25 | 19 | 19 | 13 | 6 | 0 | 0 |
| 698 | Other | Non-Participating | 340780.47 | 4756039.04 | 19 | 25 | 25 | 25 | 19 | 19 | 13 | 6 | 0 | 0 |
| 701 | Other | Non-Participating | 340835.32 | 4755946.66 | 20 | 28 | 27 | 25 | 19 | 20 | 15 | 9 | 0 | 0 |
| 704 | Other | Non-Participating | 340867.79 | 4755756.13 | 22 | 31 | 30 | 25 | 20 | 21 | 18 | 13 | 0 | 0 |
| 705 | Other | Non-Participating | 340670.66 | 4755634.74 | 20 | 29 | 28 | 24 | 18 | 19 | 15 | 9 | 0 | 0 |
| 706 | Other | Non-Participating | 340685.90 | 4755692.24 | 21 | 30 | 29 | 24 | 19 | 20 | 16 | 10 | 0 | 0 |
| 707 | Other | Non-Participating | 340846.24 | 4755568.15 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 715 | Other | Non-Participating | 340645.28 | 4755499.13 | 19 | 29 | 28 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 716 | Other | Non-Participating | 340713.17 | 4755375.62 | 18 | 25 | 25 | 24 | 18 | 18 | 12 | 5 | 0 | 0 |
| 722 | Other | Non-Participating | 340442.81 | 4755342.10 | 17 | 26 | 25 | 23 | 17 | 16 | 11 | 2 | 0 | 0 |
| 728 | Other | Non-Participating | 341000.32 | 4755464.70 | 22 | 29 | 29 | 25 | 20 | 20 | 17 | 12 | 0 | 0 |
| 729 | Other | Non-Participating | 340895.76 | 4755512.61 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 732 | Other | Non-Participating | 341588.89 | 4755019.34 | 30 | 36 | 35 | 29 | 23 | 26 | 25 | 25 | 5 | 0 |
| 733 | Other | Non-Participating | 341738.46 | 4757560.66 | 26 | 33 | 36 | 29 | 24 | 25 | 21 | 15 | 0 | 0 |
| 734 | Other | Non-Participating | 341269.04 | 4757418.53 | 19 | 24 | 25 | 25 | 20 | 19 | 13 | 6 | 0 | 0 |
| 754 | Other | Non-Participating | 344820.95 | 4755344.61 | 35 | 39 | 38 | 32 | 25 | 30 | 29 | 31 | 15 | 0 |
| 755 | Other | Non-Participating | 346999.10 | 4758167.47 | 8 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 756 | Other | Non-Participating | 347193.24 | 4757999.03 | 9 | 24 | 22 | 16 | 9 | 9 | 3 | 0 | 0 | 0 |
| 757 | Other | Non-Participating | 341894.97 | 4757765.80 | 20 | 24 | 26 | 26 | 20 | 20 | 13 | 6 | 0 | 0 |
| 758 | Other | Non-Participating | 341927.31 | 4757643.21 | 26 | 33 | 36 | 30 | 24 | 25 | 21 | 14 | 0 | 0 |
| 759 | Uninhabitable Structure | Non-Participating | 341249.85 | 4757443.23 | 19 | 24 | 25 | 25 | 20 | 19 | 12 | 6 | 0 | 0 |
| 760 | Other | Non-Participating | 342449.83 | 4757484.74 | 26 | 33 | 32 | 29 | 24 | 24 | 20 | 17 | 0 | 0 |
| 761 | Other | Non-Participating | 342709.19 | 4757464.30 | 28 | 34 | 38 | 32 | 26 | 28 | 23 | 14 | 0 | 0 |
| 762 | Other | Non-Participating | 345269.42 | 4757472.02 | 14 | 23 | 23 | 21 | 14 | 14 | 8 | 0 | 0 | 0 |
| 763 | Other | Non-Participating | 346384.56 | 4757646.17 | 10 | 21 | 20 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 764 | Other | Non-Participating | 346233.13 | 4757645.86 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 765 | Other | Non-Participating | 345619.15 | 4757505.94 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 766 | Other | Non-Participating | 345620.75 | 4757514.18 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 771 | Other | Non-Participating | 341908.40 | 4757521.29 | 27 | 34 | 36 | 30 | 25 | 26 | 22 | 16 | 0 | 0 |
| 772 | Other | Non-Participating | 340833.17 | 4755954.35 | 20 | 27 | 27 | 25 | 19 | 19 | 14 | 8 | 0 | 0 |
| 774 | Other | Non-Participating | 340829.31 | 4756092.20 | 22 | 31 | 30 | 25 | 20 | 21 | 17 | 11 | 0 | 0 |
| 775 | Other | Non-Participating | 341171.25 | 4756511.57 | 24 | 31 | 31 | 28 | 22 | 23 | 19 | 15 | 0 | 0 |
| 776 | Other | Non-Participating | 343015.51 | 4755881.21 | 35 | 38 | 37 | 35 | 28 | 30 | 29 | 30 | 16 | 0 |
| 777 | Other | Non-Participating | 342688.28 | 4754728.04 | 35 | 40 | 39 | 33 | 26 | 30 | 29 | 30 | 13 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 778 | Other | Non-Participating | 340812.65 | 4755409.48 | 18 | 24 | 24 | 24 | 18 | 18 | 12 | 6 | 0 | 0 |
| 782 | Other | Non-Participating | 343185.49 | 4753598.52 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 784 | Other | Non-Participating | 343133.73 | 4754238.59 | 22 | 30 | 29 | 24 | 19 | 20 | 18 | 15 | 0 | 0 |
| 786 | Other | Non-Participating | 343374.22 | 4755807.38 | 25 | 29 | 30 | 30 | 24 | 24 | 19 | 15 | 0 | 0 |
| 787 | Other | Non-Participating | 343098.16 | 4755736.44 | 30 | 34 | 34 | 32 | 26 | 27 | 24 | 24 | 6 | 0 |
| 788 | Uninhabitable Structure | Non-Participating | 344916.20 | 4756492.93 | 25 | 33 | 32 | 25 | 19 | 22 | 20 | 18 | 0 | 0 |
| 789 | Other | Non-Participating | 343667.15 | 4754449.36 | 21 | 30 | 32 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 790 | Other | Non-Participating | 343425.24 | 4754582.98 | 22 | 30 | 29 | 25 | 19 | 20 | 17 | 14 | 0 | 0 |
| 791 | Other | Non-Participating | 343348.42 | 4754596.74 | 23 | 30 | 29 | 25 | 20 | 21 | 18 | 15 | 0 | 0 |
| 792 | Other | Non-Participating | 344976.12 | 4754156.33 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 794 | Other | Non-Participating | 346215.70 | 4753868.42 | 20 | 29 | 27 | 20 | 15 | 18 | 16 | 13 | 0 | 0 |
| 798 | Other | Non-Participating | 346590.78 | 4757945.43 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 799 | Other | Non-Participating | 343028.15 | 4754728.02 | 28 | 33 | 32 | 28 | 22 | 24 | 22 | 22 | 2 | 0 |
| 800 | Other | Non-Participating | 346560.55 | 4759087.19 | 6 | 21 | 20 | 15 | 8 | 6 | 0 | 0 | 0 | 0 |
| 802 | Other | Non-Participating | 341960.36 | 4757921.51 | 24 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 804 | Other | Non-Participating | 344778.32 | 4755968.46 | 30 | 36 | 36 | 29 | 23 | 27 | 25 | 26 | 6 | 0 |
| 805 | Other | Non-Participating | 347215.74 | 4757214.36 | 10 | 23 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 806 | Uninhabitable Structure | Non-Participating | 344769.59 | 4757445.31 | 15 | 27 | 26 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 807 | Uninhabitable Structure | Non-Participating | 346975.95 | 4756520.99 | 13 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 808 | Uninhabitable Structure | Non-Participating | 346930.53 | 4756555.85 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 809 | Other | Non-Participating | 345381.83 | 4753962.44 | 21 | 25 | 24 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 810 | Other | Non-Participating | 343198.94 | 4754611.08 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 811 | Other | Non-Participating | 342424.18 | 4753570.35 | 22 | 30 | 28 | 23 | 17 | 19 | 17 | 15 | 0 | 0 |
| 812 | Other | Non-Participating | 346187.91 | 4753837.51 | 20 | 29 | 27 | 20 | 15 | 18 | 16 | 13 | 0 | 0 |
| 814 | Uninhabitable Structure | Non-Participating | 342399.89 | 4757641.84 | 24 | 32 | 31 | 28 | 22 | 23 | 19 | 14 | 0 | 0 |
| 815 | Other | Non-Participating | 346125.13 | 4755075.12 | 25 | 34 | 32 | 24 | 19 | 22 | 21 | 19 | 0 | 0 |
| 816 | Other | Non-Participating | 341830.75 | 4753671.91 | 22 | 30 | 29 | 23 | 17 | 20 | 18 | 15 | 0 | 0 |
| 819 | Uninhabitable Structure | Non-Participating | 343062.64 | 4755286.86 | 26 | 31 | 31 | 29 | 23 | 24 | 20 | 18 | 0 | 0 |
| 820 | Other | Non-Participating | 341346.10 | 4753720.11 | 20 | 30 | 29 | 22 | 16 | 18 | 16 | 11 | 0 | 0 |
| 822 | Other | Non-Participating | 342525.39 | 4753212.23 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 823 | Other | Non-Participating | 343304.28 | 4753626.84 | 17 | 27 | 26 | 22 | 16 | 16 | 13 | 7 | 0 | 0 |
| 826 | Other | Non-Participating | 346235.86 | 4754365.28 | 18 | 23 | 22 | 21 | 16 | 17 | 13 | 11 | 0 | 0 |
| 827 | Other | Non-Participating | 346508.30 | 4758811.52 | 7 | 21 | 20 | 16 | 8 | 7 | 0 | 0 | 0 | 0 |
| 828 | Uninhabitable Structure | Non-Participating | 346948.28 | 4756514.99 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 829 | Other | Non-Participating | 343214.50 | 4757476.11 | 26 | 32 | 36 | 30 | 25 | 26 | 20 | 10 | 0 | 0 |
| 830 | Other | Non-Participating | 342507.31 | 4753472.64 | 20 | 29 | 27 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 831 | Uninhabitable Structure | Non-Participating | 346937.14 | 4756538.50 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 832 | Other | Non-Participating | 344873.42 | 4754824.40 | 28 | 36 | 35 | 27 | 21 | 25 | 24 | 23 | 0 | 0 |
| 833 | Other | Non-Participating | 343198.05 | 4754594.31 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 834 | Other | Non-Participating | 341905.30 | 4754497.71 | 32 | 38 | 37 | 30 | 24 | 28 | 27 | 28 | 9 | 0 |
| 835 | Other | Non-Participating | 346234.58 | 4754278.54 | 23 | 31 | 29 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 836 | Other | Non-Participating | 346205.15 | 4754187.10 | 23 | 31 | 30 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 837 | Other | Non-Participating | 347476.47 | 4756891.71 | 10 | 24 | 23 | 16 | 9 | 10 | 4 | 0 | 0 | 0 |
| 838 | Uninhabitable Structure | Non-Participating | 346127.92 | 4753758.30 | 19 | 27 | 25 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 840 | Other | Non-Participating | 341920.92 | 4754525.63 | 33 | 38 | 37 | 30 | 24 | 28 | 28 | 28 | 10 | 0 |
| 841 | Other | Non-Participating | 347052.30 | 4757300.43 | 8 | 17 | 17 | 16 | 9 | 8 | 0 | 0 | 0 | 0 |

**Table 7-5.1m_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 843 | Other | Non-Participating | 340892.20 | 4755376.16 | 19 | 24 | 24 | 24 | 19 | 18 | 13 | 7 | 0 | 0 |
| 844 | Uninhabitable Structure | Non-Participating | 342674.53 | 4757479.00 | 28 | 34 | 38 | 32 | 26 | 28 | 23 | 16 | 0 | 0 |
| 845 | Other | Non-Participating | 346243.64 | 4753954.96 | 21 | 29 | 28 | 21 | 15 | 18 | 16 | 14 | 0 | 0 |
| 847 | Other | Non-Participating | 341938.04 | 4757436.69 | 28 | 34 | 37 | 31 | 25 | 27 | 23 | 18 | 0 | 0 |
| 850 | Other | Non-Participating | 341952.29 | 4757928.29 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 851 | Other | Non-Participating | 341963.42 | 4757925.83 | 24 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 852 | Other | Non-Participating | 347136.35 | 4756355.44 | 14 | 27 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 853 | Uninhabitable Structure | Non-Participating | 346972.72 | 4756556.66 | 13 | 25 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 854 | Other | Non-Participating | 341886.09 | 4756030.29 | 33 | 38 | 37 | 34 | 28 | 30 | 28 | 28 | 11 | 0 |
| 856 | Other | Non-Participating | 340887.24 | 4755528.58 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 857 | Other | Non-Participating | 346523.43 | 4759147.96 | 6 | 21 | 20 | 15 | 8 | 6 | 0 | 0 | 0 | 0 |
| 858 | Other | Non-Participating | 341207.48 | 4753685.20 | 16 | 25 | 24 | 21 | 15 | 15 | 11 | 6 | 0 | 0 |
| 859 | Other | Non-Participating | 347059.98 | 4756830.44 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 860 | Other | Non-Participating | 345392.09 | 4753943.33 | 21 | 25 | 24 | 22 | 18 | 19 | 16 | 15 | 0 | 0 |
| 861 | Uninhabitable Structure | Non-Participating | 340698.42 | 4755387.56 | 18 | 25 | 25 | 23 | 18 | 17 | 12 | 5 | 0 | 0 |
| 862 | Other | Non-Participating | 342516.13 | 4753189.08 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 863 | Other | Non-Participating | 346540.48 | 4757849.85 | 10 | 22 | 21 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 864 | Other | Non-Participating | 346527.02 | 4758297.68 | 8 | 21 | 21 | 17 | 9 | 8 | 1 | 0 | 0 | 0 |
| 865 | Other | Non-Participating | 343055.84 | 4754293.75 | 22 | 29 | 28 | 25 | 19 | 20 | 17 | 15 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Other Receptors | | | | | | | | | | | | | | |
| **298** | **Other** | **Non-Participating** | **344893.11** | **4755526.71** | **38** | **42** | **41** | **35** | **28** | **32** | **32** | **34** | **20** | **0** |
| **188** | **Other** | **Non-Participating** | **347479.42** | **4758337.78** | **5** | **15** | **15** | **14** | **7** | **4** | **0** | **0** | **0** | **0** |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 298 | Other | Non-Participating | 344893.11 | 4755526.71 | 38 | 42 | 41 | 35 | 28 | 32 | 32 | 34 | 20 | 0 |
| 299 | Other | Non-Participating | 344920.16 | 4755501.02 | 37 | 41 | 40 | 34 | 27 | 32 | 32 | 34 | 19 | 0 |
| 143 | Other | Non-Participating | 342664.10 | 4756837.57 | 37 | 41 | 45 | 41 | 34 | 36 | 32 | 28 | 11 | 0 |
| 668 | Other | Non-Participating | 343017.28 | 4755917.05 | 36 | 39 | 38 | 35 | 29 | 31 | 30 | 32 | 19 | 0 |
| 626 | Other | Non-Participating | 342067.63 | 4755028.89 | 36 | 41 | 39 | 34 | 27 | 31 | 31 | 32 | 15 | 0 |
| 683 | Other | Non-Participating | 341984.88 | 4756008.44 | 36 | 40 | 39 | 35 | 29 | 32 | 30 | 32 | 17 | 0 |
| 620 | Other | Non-Participating | 342038.39 | 4754522.85 | 36 | 40 | 39 | 33 | 26 | 30 | 30 | 32 | 16 | 0 |
| 638 | Other | Non-Participating | 342484.80 | 4754584.08 | 35 | 40 | 39 | 33 | 26 | 30 | 30 | 31 | 15 | 0 |
| 677 | Other | Non-Participating | 343182.49 | 4756198.89 | 35 | 39 | 42 | 37 | 31 | 33 | 30 | 29 | 13 | 0 |
| 625 | Other | Non-Participating | 342026.95 | 4754978.19 | 35 | 39 | 38 | 33 | 26 | 30 | 30 | 31 | 13 | 0 |
| 776 | Other | Non-Participating | 343015.51 | 4755881.21 | 35 | 38 | 37 | 35 | 28 | 30 | 29 | 30 | 16 | 0 |
| 754 | Other | Non-Participating | 344820.95 | 4755344.61 | 35 | 39 | 38 | 32 | 25 | 30 | 29 | 31 | 15 | 0 |
| 349 | Other | Non-Participating | 345468.52 | 4754241.49 | 35 | 39 | 38 | 32 | 25 | 29 | 29 | 31 | 15 | 0 |
| 777 | Other | Non-Participating | 342688.28 | 4754728.04 | 35 | 40 | 39 | 33 | 26 | 30 | 29 | 30 | 13 | 0 |
| 302 | Other | Non-Participating | 344908.55 | 4755343.86 | 34 | 39 | 38 | 32 | 25 | 29 | 29 | 30 | 13 | 0 |
| 144 | Other | Non-Participating | 343108.28 | 4756548.31 | 34 | 39 | 43 | 38 | 32 | 34 | 29 | 23 | 3 | 0 |
| 854 | Other | Non-Participating | 341886.09 | 4756030.29 | 33 | 38 | 37 | 34 | 28 | 30 | 28 | 28 | 11 | 0 |
| 637 | Other | Non-Participating | 342552.39 | 4754613.72 | 33 | 38 | 37 | 31 | 25 | 29 | 28 | 29 | 11 | 0 |
| 621 | Other | Non-Participating | 341928.42 | 4754529.25 | 33 | 38 | 37 | 30 | 24 | 28 | 28 | 28 | 10 | 0 |
| 303 | Other | Non-Participating | 344819.03 | 4755249.54 | 33 | 38 | 38 | 30 | 24 | 28 | 28 | 28 | 10 | 0 |
| 840 | Other | Non-Participating | 341920.92 | 4754525.63 | 33 | 38 | 37 | 30 | 24 | 28 | 28 | 28 | 10 | 0 |
| 290 | Other | Non-Participating | 344795.37 | 4755873.21 | 32 | 38 | 37 | 31 | 24 | 28 | 27 | 28 | 11 | 0 |
| 834 | Other | Non-Participating | 341905.30 | 4754497.71 | 32 | 38 | 37 | 30 | 24 | 28 | 27 | 28 | 9 | 0 |
| 635 | Other | Non-Participating | 342628.45 | 4754555.66 | 32 | 38 | 36 | 30 | 24 | 28 | 27 | 27 | 8 | 0 |
| 690 | Other | Non-Participating | 341753.78 | 4756118.84 | 32 | 38 | 37 | 33 | 27 | 29 | 27 | 26 | 5 | 0 |
| 639 | Other | Non-Participating | 342589.52 | 4754559.86 | 32 | 37 | 36 | 30 | 24 | 28 | 27 | 27 | 9 | 0 |
| 689 | Other | Non-Participating | 341734.67 | 4756116.89 | 32 | 38 | 37 | 32 | 27 | 29 | 27 | 26 | 5 | 0 |
| 691 | Other | Non-Participating | 341729.49 | 4756133.16 | 32 | 38 | 37 | 32 | 27 | 29 | 27 | 26 | 5 | 0 |
| 289 | Other | Non-Participating | 344807.68 | 4755920.98 | 32 | 37 | 37 | 30 | 24 | 27 | 27 | 27 | 9 | 0 |
| 304 | Other | Non-Participating | 344789.02 | 4755222.57 | 32 | 37 | 37 | 30 | 23 | 27 | 26 | 27 | 9 | 0 |
| 669 | Other | Non-Participating | 343252.25 | 4755818.11 | 31 | 36 | 39 | 34 | 28 | 30 | 26 | 24 | 5 | 0 |
| 655 | Other | Non-Participating | 342965.10 | 4755217.41 | 31 | 37 | 36 | 31 | 25 | 27 | 26 | 26 | 7 | 0 |
| 666 | Other | Non-Participating | 343088.05 | 4755762.29 | 31 | 35 | 34 | 32 | 26 | 28 | 25 | 25 | 7 | 0 |
| 657 | Other | Non-Participating | 342994.32 | 4755186.61 | 31 | 37 | 35 | 30 | 24 | 27 | 26 | 26 | 6 | 0 |
| 804 | Other | Non-Participating | 344778.32 | 4755968.46 | 30 | 36 | 36 | 29 | 23 | 27 | 25 | 26 | 6 | 0 |
| 732 | Other | Non-Participating | 341588.89 | 4755019.34 | 30 | 36 | 35 | 29 | 23 | 26 | 25 | 25 | 5 | 0 |
| 664 | Other | Non-Participating | 343122.56 | 4755631.04 | 30 | 35 | 38 | 33 | 27 | 29 | 25 | 22 | 0 | 0 |
| 787 | Other | Non-Participating | 343098.16 | 4755736.44 | 30 | 34 | 34 | 32 | 26 | 27 | 24 | 24 | 6 | 0 |
| 665 | Other | Non-Participating | 343119.14 | 4755740.90 | 30 | 34 | 34 | 32 | 26 | 27 | 24 | 24 | 6 | 0 |
| 660 | Other | Non-Participating | 342963.36 | 4755508.64 | 30 | 35 | 38 | 33 | 27 | 29 | 25 | 21 | 0 | 0 |
| 288 | Other | Non-Participating | 344767.25 | 4755988.63 | 30 | 36 | 35 | 28 | 22 | 26 | 25 | 25 | 5 | 0 |
| 339 | Other | Non-Participating | 345198.65 | 4754187.27 | 29 | 35 | 34 | 28 | 21 | 25 | 24 | 25 | 7 | 0 |
| 642 | Other | Non-Participating | 342899.92 | 4754705.31 | 29 | 34 | 33 | 29 | 23 | 25 | 24 | 25 | 6 | 0 |
| 656 | Other | Non-Participating | 342995.24 | 4755211.87 | 29 | 34 | 33 | 30 | 24 | 26 | 24 | 24 | 5 | 0 |
| 618 | Other | Non-Participating | 342037.80 | 4754019.59 | 29 | 35 | 33 | 27 | 21 | 25 | 24 | 25 | 5 | 0 |
| 640 | Other | Non-Participating | 342885.36 | 4754674.89 | 29 | 34 | 33 | 28 | 23 | 25 | 24 | 24 | 5 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 641 | Other | Non-Participating | 342915.65 | 4754677.48 | 29 | 34 | 33 | 28 | 22 | 25 | 23 | 24 | 5 | 0 |
| 627 | Other | Non-Participating | 342722.30 | 4754359.22 | 28 | 34 | 33 | 28 | 22 | 25 | 23 | 23 | 2 | 0 |
| 832 | Other | Non-Participating | 344873.42 | 4754824.40 | 28 | 36 | 35 | 27 | 21 | 25 | 24 | 23 | 0 | 0 |
| 305 | Other | Non-Participating | 344850.81 | 4754826.77 | 28 | 36 | 35 | 27 | 21 | 25 | 24 | 22 | 0 | 0 |
| 350 | Other | Non-Participating | 345456.53 | 4754231.09 | 28 | 30 | 29 | 27 | 23 | 25 | 22 | 23 | 7 | 0 |
| 844 | Uninhabitable Structure | Non-Participating | 342674.53 | 4757479.00 | 28 | 34 | 38 | 32 | 26 | 28 | 23 | 16 | 0 | 0 |
| 282 | Other | Non-Participating | 344950.77 | 4756227.93 | 28 | 35 | 34 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 847 | Other | Non-Participating | 341938.04 | 4757436.69 | 28 | 34 | 37 | 31 | 25 | 27 | 23 | 18 | 0 | 0 |
| 761 | Other | Non-Participating | 342709.19 | 4757464.30 | 28 | 34 | 38 | 32 | 26 | 28 | 23 | 14 | 0 | 0 |
| 652 | Other | Non-Participating | 343126.59 | 4755042.36 | 28 | 34 | 33 | 28 | 23 | 25 | 23 | 22 | 2 | 0 |
| 283 | Other | Non-Participating | 344989.35 | 4756229.17 | 28 | 35 | 33 | 27 | 21 | 24 | 23 | 22 | 0 | 0 |
| 799 | Other | Non-Participating | 343028.15 | 4754728.02 | 28 | 33 | 32 | 28 | 22 | 24 | 22 | 22 | 2 | 0 |
| 651 | Other | Non-Participating | 343117.64 | 4754854.71 | 27 | 34 | 33 | 28 | 22 | 24 | 22 | 22 | 1 | 0 |
| 351 | Other | Non-Participating | 345481.43 | 4754216.46 | 27 | 29 | 28 | 26 | 22 | 24 | 22 | 23 | 6 | 0 |
| 121 | Other | Non-Participating | 342170.22 | 4757540.06 | 27 | 34 | 37 | 31 | 25 | 27 | 22 | 17 | 0 | 0 |
| 101 | Other | Non-Participating | 341636.21 | 4757359.02 | 27 | 34 | 36 | 30 | 25 | 26 | 22 | 18 | 0 | 0 |
| 421 | Other | Non-Participating | 346081.66 | 4754774.72 | 27 | 35 | 33 | 25 | 19 | 24 | 23 | 22 | 0 | 0 |
| 654 | Other | Non-Participating | 343167.07 | 4755010.44 | 27 | 33 | 32 | 28 | 22 | 24 | 22 | 21 | 0 | 0 |
| 643 | Other | Non-Participating | 342936.44 | 4754582.73 | 27 | 33 | 32 | 27 | 22 | 24 | 22 | 21 | 0 | 0 |
| 771 | Other | Non-Participating | 341908.40 | 4757521.29 | 27 | 34 | 36 | 30 | 25 | 26 | 22 | 16 | 0 | 0 |
| 644 | Other | Non-Participating | 342902.91 | 4754552.21 | 27 | 33 | 31 | 27 | 22 | 24 | 22 | 21 | 0 | 0 |
| 432 | Other | Non-Participating | 346030.04 | 4755281.80 | 27 | 34 | 33 | 25 | 19 | 23 | 22 | 21 | 0 | 0 |
| 310 | Other | Non-Participating | 344747.53 | 4754482.09 | 26 | 35 | 34 | 26 | 20 | 24 | 22 | 20 | 0 | 0 |
| 433 | Other | Non-Participating | 346057.30 | 4755193.94 | 26 | 34 | 33 | 25 | 19 | 23 | 22 | 20 | 0 | 0 |
| 108 | Other | Non-Participating | 341790.17 | 4757532.03 | 26 | 33 | 36 | 30 | 24 | 26 | 21 | 16 | 0 | 0 |
| 420 | Other | Non-Participating | 346146.04 | 4754750.99 | 26 | 34 | 33 | 24 | 19 | 23 | 22 | 20 | 0 | 0 |
| 308 | Other | Non-Participating | 344713.66 | 4754459.12 | 26 | 34 | 34 | 26 | 20 | 23 | 22 | 20 | 0 | 0 |
| 106 | Other | Non-Participating | 341638.82 | 4757558.66 | 26 | 34 | 36 | 29 | 24 | 25 | 21 | 16 | 0 | 0 |
| 125 | Other | Non-Participating | 342407.31 | 4757472.85 | 26 | 33 | 32 | 29 | 24 | 24 | 21 | 17 | 0 | 0 |
| 733 | Other | Non-Participating | 341738.46 | 4757560.66 | 26 | 33 | 36 | 29 | 24 | 25 | 21 | 15 | 0 | 0 |
| 758 | Other | Non-Participating | 341927.31 | 4757643.21 | 26 | 33 | 36 | 30 | 24 | 25 | 21 | 14 | 0 | 0 |
| 829 | Other | Non-Participating | 343214.50 | 4757476.11 | 26 | 32 | 36 | 30 | 25 | 26 | 20 | 10 | 0 | 0 |
| 588 | Other | Non-Participating | 342283.37 | 4753805.95 | 26 | 32 | 31 | 25 | 19 | 22 | 21 | 20 | 0 | 0 |
| 107 | Other | Non-Participating | 341720.85 | 4757563.42 | 26 | 33 | 36 | 29 | 24 | 25 | 21 | 15 | 0 | 0 |
| 819 | Uninhabitable Structure | Non-Participating | 343062.64 | 4755286.86 | 26 | 31 | 31 | 29 | 23 | 24 | 20 | 18 | 0 | 0 |
| 318 | Other | Non-Participating | 344811.62 | 4754291.63 | 26 | 33 | 33 | 25 | 20 | 23 | 21 | 20 | 0 | 0 |
| 424 | Other | Non-Participating | 346154.81 | 4754893.86 | 26 | 34 | 32 | 24 | 18 | 22 | 21 | 20 | 0 | 0 |
| 425 | Other | Non-Participating | 346150.04 | 4754915.26 | 26 | 34 | 32 | 24 | 18 | 22 | 21 | 20 | 0 | 0 |
| 362 | Other | Non-Participating | 345746.28 | 4754023.86 | 26 | 31 | 30 | 24 | 18 | 22 | 21 | 21 | 0 | 0 |
| 760 | Other | Non-Participating | 342449.83 | 4757484.74 | 26 | 33 | 32 | 29 | 24 | 24 | 20 | 17 | 0 | 0 |
| 137 | Uninhabitable Structure | Non-Participating | 343253.54 | 4757472.18 | 26 | 32 | 36 | 30 | 25 | 26 | 20 | 10 | 0 | 0 |
| 815 | Other | Non-Participating | 346125.13 | 4755075.12 | 25 | 34 | 32 | 24 | 19 | 22 | 21 | 19 | 0 | 0 |
| 431 | Other | Non-Participating | 346134.88 | 4755257.61 | 25 | 33 | 32 | 24 | 19 | 22 | 21 | 19 | 0 | 0 |
| 276 | Other | Non-Participating | 344939.01 | 4756445.84 | 25 | 34 | 32 | 25 | 19 | 23 | 21 | 19 | 0 | 0 |
| 131 | Other | Non-Participating | 342396.25 | 4757527.40 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |
| 130 | Other | Non-Participating | 342412.99 | 4757531.66 | 25 | 32 | 32 | 29 | 23 | 24 | 20 | 16 | 0 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 786 | Other | Non-Participating | 343374.22 | 4755807.38 | 25 | 29 | 30 | 30 | 24 | 24 | 19 | 15 | 0 | 0 |
| 309 | Other | Non-Participating | 344680.20 | 4754437.71 | 25 | 33 | 33 | 25 | 20 | 22 | 20 | 18 | 0 | 0 |
| 788 | Uninhabitable Structure | Non-Participating | 344916.20 | 4756492.93 | 25 | 33 | 32 | 25 | 19 | 22 | 20 | 18 | 0 | 0 |
| 530 | Other | Non-Participating | 343149.67 | 4754608.36 | 25 | 32 | 31 | 26 | 21 | 22 | 20 | 18 | 0 | 0 |
| 352 | Other | Non-Participating | 345441.61 | 4754107.83 | 25 | 27 | 26 | 24 | 20 | 22 | 19 | 19 | 0 | 0 |
| 138 | Other | Non-Participating | 343519.28 | 4757383.43 | 25 | 31 | 35 | 29 | 24 | 25 | 19 | 8 | 0 | 0 |
| 533 | Other | Non-Participating | 343209.96 | 4754703.75 | 25 | 31 | 30 | 26 | 21 | 22 | 20 | 18 | 0 | 0 |
| 279 | Other | Non-Participating | 345019.66 | 4756516.59 | 25 | 33 | 32 | 25 | 19 | 22 | 20 | 18 | 0 | 0 |
| 132 | Other | Non-Participating | 342414.32 | 4757584.44 | 25 | 32 | 32 | 28 | 23 | 23 | 19 | 15 | 0 | 0 |
| 126 | Other | Non-Participating | 342486.00 | 4757551.05 | 24 | 31 | 31 | 29 | 23 | 23 | 19 | 15 | 0 | 0 |
| 529 | Other | Non-Participating | 343205.32 | 4754634.41 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 18 | 0 | 0 |
| 532 | Other | Non-Participating | 343245.41 | 4754692.62 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 18 | 0 | 0 |
| 775 | Other | Non-Participating | 341171.25 | 4756511.57 | 24 | 31 | 31 | 28 | 22 | 23 | 19 | 15 | 0 | 0 |
| 810 | Other | Non-Participating | 343198.94 | 4754611.08 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 353 | Other | Non-Participating | 345480.55 | 4754086.25 | 24 | 27 | 26 | 24 | 20 | 21 | 19 | 19 | 0 | 0 |
| 833 | Other | Non-Participating | 343198.05 | 4754594.31 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 814 | Uninhabitable Structure | Non-Participating | 342399.89 | 4757641.84 | 24 | 32 | 31 | 28 | 22 | 23 | 19 | 14 | 0 | 0 |
| 140 | Other | Non-Participating | 343593.39 | 4757476.42 | 24 | 31 | 35 | 29 | 23 | 24 | 18 | 7 | 0 | 0 |
| 531 | Other | Non-Participating | 343280.08 | 4754690.07 | 24 | 31 | 30 | 26 | 20 | 22 | 19 | 17 | 0 | 0 |
| 802 | Other | Non-Participating | 341960.36 | 4757921.51 | 24 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 851 | Other | Non-Participating | 341963.42 | 4757925.83 | 24 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 117 | Other | Non-Participating | 341910.84 | 4757778.16 | 24 | 29 | 34 | 29 | 23 | 24 | 18 | 8 | 0 | 0 |
| 589 | Other | Non-Participating | 342120.26 | 4753688.24 | 23 | 31 | 29 | 24 | 18 | 20 | 19 | 17 | 0 | 0 |
| 850 | Other | Non-Participating | 341952.29 | 4757928.29 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 119 | Other | Non-Participating | 341941.85 | 4757934.01 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 10 | 0 | 0 |
| 340 | Other | Non-Participating | 345124.54 | 4754156.43 | 23 | 27 | 26 | 24 | 19 | 21 | 18 | 17 | 0 | 0 |
| 120 | Other | Non-Participating | 341973.47 | 4757970.08 | 23 | 31 | 34 | 28 | 22 | 23 | 18 | 9 | 0 | 0 |
| 423 | Other | Non-Participating | 346197.88 | 4754934.44 | 23 | 31 | 30 | 23 | 17 | 20 | 19 | 17 | 0 | 0 |
| 836 | Other | Non-Participating | 346205.15 | 4754187.10 | 23 | 31 | 30 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 835 | Other | Non-Participating | 346234.58 | 4754278.54 | 23 | 31 | 29 | 22 | 17 | 20 | 19 | 17 | 0 | 0 |
| 127 | Other | Non-Participating | 342524.72 | 4757544.46 | 23 | 27 | 29 | 29 | 23 | 23 | 17 | 10 | 0 | 0 |
| 341 | Other | Non-Participating | 345122.75 | 4754128.01 | 23 | 27 | 26 | 24 | 19 | 20 | 17 | 17 | 0 | 0 |
| 791 | Other | Non-Participating | 343348.42 | 4754596.74 | 23 | 30 | 29 | 25 | 20 | 21 | 18 | 15 | 0 | 0 |
| 329 | Other | Non-Participating | 345073.91 | 4754155.12 | 23 | 27 | 26 | 24 | 19 | 20 | 17 | 16 | 0 | 0 |
| 784 | Other | Non-Participating | 343133.73 | 4754238.59 | 22 | 30 | 29 | 24 | 19 | 20 | 18 | 15 | 0 | 0 |
| 865 | Other | Non-Participating | 343055.84 | 4754293.75 | 22 | 29 | 28 | 25 | 19 | 20 | 17 | 15 | 0 | 0 |
| 584 | Other | Non-Participating | 342381.91 | 4753601.69 | 22 | 30 | 29 | 23 | 17 | 19 | 18 | 16 | 0 | 0 |
| 704 | Other | Non-Participating | 340867.79 | 4755756.13 | 22 | 31 | 30 | 25 | 20 | 21 | 18 | 13 | 0 | 0 |
| 816 | Other | Non-Participating | 341830.75 | 4753671.91 | 22 | 30 | 29 | 23 | 17 | 20 | 18 | 15 | 0 | 0 |
| 363 | Other | Non-Participating | 345908.14 | 4753900.95 | 22 | 29 | 28 | 22 | 16 | 19 | 17 | 16 | 0 | 0 |
| 790 | Other | Non-Participating | 343425.24 | 4754582.98 | 22 | 30 | 29 | 25 | 19 | 20 | 17 | 14 | 0 | 0 |
| 548 | Other | Non-Participating | 343117.15 | 4754320.33 | 22 | 29 | 29 | 25 | 19 | 20 | 17 | 14 | 0 | 0 |
| 331 | Other | Non-Participating | 344980.91 | 4754190.87 | 22 | 26 | 25 | 23 | 18 | 20 | 16 | 15 | 0 | 0 |
| 332 | Other | Non-Participating | 345044.69 | 4754128.22 | 22 | 26 | 25 | 23 | 18 | 20 | 16 | 15 | 0 | 0 |
| 355 | Other | Non-Participating | 345694.91 | 4753789.88 | 22 | 29 | 27 | 22 | 16 | 19 | 17 | 16 | 0 | 0 |
| 522 | Other | Non-Participating | 343632.81 | 4754457.08 | 22 | 30 | 32 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 811 | Other | Non-Participating | 342424.18 | 4753570.35 | 22 | 30 | 28 | 23 | 17 | 19 | 17 | 15 | 0 | 0 |
| 728 | Other | Non-Participating | 341000.32 | 4755464.70 | 22 | 29 | 29 | 25 | 20 | 20 | 17 | 12 | 0 | 0 |
| 407 | Other | Non-Participating | 346238.89 | 4754057.50 | 22 | 30 | 29 | 21 | 16 | 19 | 17 | 15 | 0 | 0 |
| 354 | Other | Non-Participating | 345673.01 | 4753776.13 | 22 | 29 | 27 | 22 | 16 | 19 | 17 | 16 | 0 | 0 |
| 774 | Other | Non-Participating | 340829.31 | 4756092.20 | 22 | 31 | 30 | 25 | 20 | 21 | 17 | 11 | 0 | 0 |
| 789 | Other | Non-Participating | 343667.15 | 4754449.36 | 21 | 30 | 32 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 809 | Other | Non-Participating | 345381.83 | 4753962.44 | 21 | 25 | 24 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 523 | Other | Non-Participating | 343666.72 | 4754439.80 | 21 | 30 | 32 | 26 | 20 | 21 | 16 | 10 | 0 | 0 |
| 547 | Other | Non-Participating | 343029.50 | 4754388.07 | 21 | 28 | 27 | 25 | 20 | 20 | 16 | 13 | 0 | 0 |
| 550 | Other | Non-Participating | 343168.54 | 4754094.91 | 21 | 30 | 28 | 24 | 18 | 19 | 17 | 13 | 0 | 0 |
| 330 | Other | Non-Participating | 345089.96 | 4754058.13 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 792 | Other | Non-Participating | 344976.12 | 4754156.33 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 15 | 0 | 0 |
| 406 | Other | Non-Participating | 346238.75 | 4754001.51 | 21 | 30 | 29 | 21 | 15 | 19 | 17 | 14 | 0 | 0 |
| 729 | Other | Non-Participating | 340895.76 | 4755512.61 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 707 | Other | Non-Participating | 340846.24 | 4755568.15 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 856 | Other | Non-Participating | 340887.24 | 4755528.58 | 21 | 30 | 29 | 25 | 19 | 20 | 16 | 11 | 0 | 0 |
| 280 | Other | Non-Participating | 344787.29 | 4756545.65 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 13 | 0 | 0 |
| 275 | Other | Non-Participating | 344825.49 | 4756553.31 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 13 | 0 | 0 |
| 549 | Other | Non-Participating | 343220.98 | 4754152.42 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 13 | 0 | 0 |
| 860 | Other | Non-Participating | 345392.09 | 4753943.33 | 21 | 25 | 24 | 22 | 18 | 19 | 16 | 15 | 0 | 0 |
| 320 | Other | Non-Participating | 344918.12 | 4754201.49 | 21 | 26 | 25 | 23 | 18 | 19 | 16 | 14 | 0 | 0 |
| 696 | Other | Non-Participating | 340910.09 | 4756372.24 | 21 | 29 | 29 | 26 | 20 | 20 | 16 | 9 | 0 | 0 |
| 281 | Other | Non-Participating | 344815.95 | 4756569.78 | 21 | 29 | 28 | 24 | 18 | 19 | 16 | 12 | 0 | 0 |
| 845 | Other | Non-Participating | 346243.64 | 4753954.96 | 21 | 29 | 28 | 21 | 15 | 18 | 16 | 14 | 0 | 0 |
| 437 | Other | Non-Participating | 346115.11 | 4756534.65 | 21 | 30 | 29 | 22 | 16 | 19 | 17 | 13 | 0 | 0 |
| 438 | Other | Non-Participating | 346117.93 | 4756554.99 | 21 | 31 | 29 | 22 | 16 | 19 | 17 | 13 | 0 | 0 |
| 706 | Other | Non-Participating | 340685.90 | 4755692.24 | 21 | 30 | 29 | 24 | 19 | 20 | 16 | 10 | 0 | 0 |
| 580 | Other | Non-Participating | 342514.53 | 4753494.91 | 20 | 29 | 28 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 267 | Other | Non-Participating | 344865.97 | 4756968.82 | 20 | 32 | 30 | 23 | 17 | 19 | 16 | 10 | 0 | 0 |
| 319 | Other | Non-Participating | 344882.94 | 4754171.86 | 20 | 25 | 25 | 23 | 18 | 19 | 15 | 13 | 0 | 0 |
| 271 | Other | Non-Participating | 344909.83 | 4756795.15 | 20 | 30 | 29 | 23 | 17 | 19 | 16 | 11 | 0 | 0 |
| 265 | Other | Non-Participating | 344811.08 | 4757000.15 | 20 | 32 | 30 | 24 | 18 | 19 | 16 | 9 | 0 | 0 |
| 579 | Other | Non-Participating | 342522.08 | 4753475.59 | 20 | 29 | 27 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 830 | Other | Non-Participating | 342507.31 | 4753472.64 | 20 | 29 | 27 | 22 | 16 | 18 | 16 | 13 | 0 | 0 |
| 701 | Other | Non-Participating | 340835.32 | 4755946.66 | 20 | 28 | 27 | 25 | 19 | 20 | 15 | 9 | 0 | 0 |
| 794 | Other | Non-Participating | 346215.70 | 4753868.42 | 20 | 29 | 27 | 20 | 15 | 18 | 16 | 13 | 0 | 0 |
| 812 | Other | Non-Participating | 346187.91 | 4753837.51 | 20 | 29 | 27 | 20 | 15 | 18 | 16 | 13 | 0 | 0 |
| 272 | Other | Non-Participating | 344941.64 | 4756826.27 | 20 | 30 | 28 | 23 | 17 | 19 | 15 | 11 | 0 | 0 |
| 772 | Other | Non-Participating | 340833.17 | 4755954.35 | 20 | 27 | 27 | 25 | 19 | 19 | 14 | 8 | 0 | 0 |
| 757 | Other | Non-Participating | 341894.97 | 4757765.80 | 20 | 24 | 26 | 26 | 20 | 20 | 13 | 6 | 0 | 0 |
| 578 | Other | Non-Participating | 342634.16 | 4753480.18 | 20 | 28 | 27 | 22 | 16 | 18 | 15 | 12 | 0 | 0 |
| 705 | Other | Non-Participating | 340670.66 | 4755634.74 | 20 | 29 | 28 | 24 | 18 | 19 | 15 | 9 | 0 | 0 |
| 820 | Other | Non-Participating | 341346.10 | 4753720.11 | 20 | 30 | 29 | 22 | 16 | 18 | 16 | 11 | 0 | 0 |
| 565 | Other | Non-Participating | 343115.80 | 4753781.23 | 20 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 566 | Other | Non-Participating | 343116.15 | 4753767.52 | 20 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 439 | Other | Non-Participating | 346173.55 | 4756623.20 | 20 | 30 | 28 | 21 | 15 | 18 | 15 | 11 | 0 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 568 | Other | Non-Participating | 343094.73 | 4753745.10 | 19 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 567 | Other | Non-Participating | 343095.80 | 4753736.86 | 19 | 28 | 27 | 22 | 17 | 18 | 15 | 11 | 0 | 0 |
| 596 | Other | Non-Participating | 341480.12 | 4753622.44 | 19 | 29 | 28 | 22 | 16 | 18 | 15 | 11 | 0 | 0 |
| 266 | Other | Non-Participating | 344797.61 | 4756993.62 | 19 | 31 | 29 | 23 | 17 | 19 | 15 | 8 | 0 | 0 |
| 516 | Other | Non-Participating | 344400.70 | 4754200.58 | 19 | 29 | 30 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 515 | Other | Non-Participating | 344450.74 | 4754181.09 | 19 | 29 | 30 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 715 | Other | Non-Participating | 340645.28 | 4755499.13 | 19 | 29 | 28 | 24 | 18 | 19 | 14 | 8 | 0 | 0 |
| 734 | Other | Non-Participating | 341269.04 | 4757418.53 | 19 | 24 | 25 | 25 | 20 | 19 | 13 | 6 | 0 | 0 |
| 759 | Uninhabitable Structure | Non-Participating | 341249.85 | 4757443.23 | 19 | 24 | 25 | 25 | 20 | 19 | 12 | 6 | 0 | 0 |
| 697 | Other | Non-Participating | 340776.16 | 4756045.97 | 19 | 25 | 25 | 25 | 19 | 19 | 13 | 6 | 0 | 0 |
| 698 | Other | Non-Participating | 340780.47 | 4756039.04 | 19 | 25 | 25 | 25 | 19 | 19 | 13 | 6 | 0 | 0 |
| 381 | Other | Non-Participating | 346273.72 | 4753791.34 | 19 | 28 | 27 | 20 | 14 | 17 | 15 | 11 | 0 | 0 |
| 597 | Other | Non-Participating | 341391.40 | 4753593.61 | 19 | 29 | 28 | 21 | 16 | 17 | 15 | 10 | 0 | 0 |
| 378 | Other | Non-Participating | 346212.13 | 4753716.45 | 19 | 28 | 26 | 20 | 14 | 17 | 15 | 11 | 0 | 0 |
| 843 | Other | Non-Participating | 340892.20 | 4755376.16 | 19 | 24 | 24 | 24 | 19 | 18 | 13 | 7 | 0 | 0 |
| 838 | Uninhabitable Structure | Non-Participating | 346127.92 | 4753758.30 | 19 | 27 | 25 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 262 | Other | Non-Participating | 344764.27 | 4757088.47 | 18 | 30 | 29 | 23 | 17 | 18 | 13 | 6 | 0 | 0 |
| 261 | Other | Non-Participating | 344786.13 | 4757085.80 | 18 | 30 | 29 | 23 | 17 | 18 | 13 | 6 | 0 | 0 |
| 826 | Other | Non-Participating | 346235.86 | 4754365.28 | 18 | 23 | 22 | 21 | 16 | 17 | 13 | 11 | 0 | 0 |
| 778 | Other | Non-Participating | 340812.65 | 4755409.48 | 18 | 24 | 24 | 24 | 18 | 18 | 12 | 6 | 0 | 0 |
| 557 | Other | Non-Participating | 343320.65 | 4753763.46 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 605 | Other | Non-Participating | 341433.02 | 4753494.69 | 18 | 28 | 27 | 21 | 15 | 17 | 14 | 9 | 0 | 0 |
| 573 | Other | Non-Participating | 343045.01 | 4753512.61 | 18 | 27 | 26 | 22 | 16 | 17 | 14 | 9 | 0 | 0 |
| 371 | Other | Non-Participating | 346126.61 | 4753721.84 | 18 | 26 | 25 | 20 | 14 | 16 | 14 | 11 | 0 | 0 |
| 447 | Other | Non-Participating | 346241.04 | 4756741.66 | 18 | 29 | 27 | 20 | 14 | 17 | 14 | 9 | 0 | 0 |
| 558 | Other | Non-Participating | 343327.39 | 4753742.89 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 559 | Other | Non-Participating | 343270.44 | 4753673.11 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 782 | Other | Non-Participating | 343185.49 | 4753598.52 | 18 | 27 | 26 | 22 | 16 | 17 | 13 | 8 | 0 | 0 |
| 372 | Other | Non-Participating | 346115.11 | 4753686.04 | 18 | 26 | 25 | 20 | 14 | 16 | 14 | 10 | 0 | 0 |
| 572 | Other | Non-Participating | 343088.89 | 4753515.44 | 18 | 27 | 26 | 21 | 16 | 17 | 13 | 8 | 0 | 0 |
| 373 | Other | Non-Participating | 346129.47 | 4753686.53 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 380 | Other | Non-Participating | 346180.30 | 4753724.35 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 716 | Other | Non-Participating | 340713.17 | 4755375.62 | 18 | 25 | 25 | 24 | 18 | 18 | 12 | 5 | 0 | 0 |
| 374 | Other | Non-Participating | 346145.23 | 4753694.29 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 861 | Uninhabitable Structure | Non-Participating | 340698.42 | 4755387.56 | 18 | 25 | 25 | 23 | 18 | 17 | 12 | 5 | 0 | 0 |
| 375 | Other | Non-Participating | 346156.59 | 4753695.59 | 18 | 26 | 25 | 19 | 14 | 16 | 13 | 10 | 0 | 0 |
| 606 | Other | Non-Participating | 341440.92 | 4753417.23 | 18 | 28 | 27 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 386 | Other | Non-Participating | 346297.94 | 4753637.63 | 18 | 27 | 26 | 19 | 13 | 16 | 13 | 9 | 0 | 0 |
| 569 | Other | Non-Participating | 343158.43 | 4753507.44 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 823 | Other | Non-Participating | 343304.28 | 4753626.84 | 17 | 27 | 26 | 22 | 16 | 16 | 13 | 7 | 0 | 0 |
| 822 | Other | Non-Participating | 342525.39 | 4753212.23 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 376 | Other | Non-Participating | 346154.40 | 4753659.62 | 17 | 26 | 25 | 19 | 14 | 15 | 13 | 10 | 0 | 0 |
| 321 | Other | Non-Participating | 344567.58 | 4754140.02 | 17 | 23 | 23 | 22 | 16 | 16 | 12 | 8 | 0 | 0 |
| 377 | Other | Non-Participating | 346135.13 | 4753639.08 | 17 | 26 | 25 | 19 | 14 | 15 | 13 | 10 | 0 | 0 |
| 607 | Other | Non-Participating | 341354.39 | 4753359.98 | 17 | 28 | 27 | 21 | 14 | 16 | 13 | 7 | 0 | 0 |
| 862 | Other | Non-Participating | 342516.13 | 4753189.08 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 585 | Other | Non-Participating | 342514.83 | 4753168.41 | 17 | 27 | 26 | 21 | 15 | 16 | 13 | 8 | 0 | 0 |
| 322 | Other | Non-Participating | 344644.92 | 4754005.43 | 17 | 23 | 22 | 21 | 16 | 16 | 12 | 7 | 0 | 0 |
| 260 | Other | Non-Participating | 344734.01 | 4757259.77 | 17 | 28 | 27 | 23 | 17 | 17 | 11 | 1 | 0 | 0 |
| 608 | Other | Non-Participating | 341406.24 | 4753242.75 | 17 | 28 | 27 | 20 | 14 | 16 | 13 | 6 | 0 | 0 |
| 385 | Other | Non-Participating | 346380.18 | 4753609.00 | 17 | 27 | 25 | 19 | 13 | 15 | 13 | 8 | 0 | 0 |
| 722 | Other | Non-Participating | 340442.81 | 4755342.10 | 17 | 26 | 25 | 23 | 17 | 16 | 11 | 2 | 0 | 0 |
| 448 | Other | Non-Participating | 346222.91 | 4756877.73 | 17 | 27 | 26 | 20 | 14 | 15 | 12 | 6 | 0 | 0 |
| 396 | Other | Non-Participating | 346579.32 | 4753782.24 | 17 | 27 | 25 | 19 | 13 | 15 | 12 | 7 | 0 | 0 |
| 259 | Other | Non-Participating | 344703.74 | 4757337.39 | 17 | 28 | 27 | 23 | 16 | 16 | 11 | 0 | 0 | 0 |
| 858 | Other | Non-Participating | 341207.48 | 4753685.20 | 16 | 25 | 24 | 21 | 15 | 15 | 11 | 6 | 0 | 0 |
| 613 | Other | Non-Participating | 341211.46 | 4753675.51 | 16 | 25 | 24 | 21 | 15 | 15 | 11 | 6 | 0 | 0 |
| 506 | Other | Non-Participating | 347103.94 | 4755080.43 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 5 | 0 | 0 |
| 615 | Other | Non-Participating | 341224.27 | 4753617.89 | 16 | 26 | 25 | 21 | 15 | 15 | 11 | 5 | 0 | 0 |
| 484 | Other | Non-Participating | 346968.34 | 4756205.45 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 5 | 0 | 0 |
| 387 | Other | Non-Participating | 346525.49 | 4753600.78 | 16 | 27 | 26 | 18 | 12 | 15 | 12 | 6 | 0 | 0 |
| 505 | Other | Non-Participating | 347139.80 | 4755153.96 | 16 | 28 | 27 | 19 | 13 | 15 | 12 | 4 | 0 | 0 |
| 499 | Other | Non-Participating | 347149.21 | 4755240.94 | 16 | 28 | 26 | 19 | 12 | 15 | 12 | 4 | 0 | 0 |
| 614 | Other | Non-Participating | 341247.15 | 4753614.44 | 16 | 24 | 24 | 21 | 15 | 15 | 10 | 4 | 0 | 0 |
| 395 | Other | Non-Participating | 346434.80 | 4753794.52 | 16 | 24 | 23 | 19 | 13 | 14 | 11 | 6 | 0 | 0 |
| 504 | Other | Non-Participating | 347198.36 | 4755087.85 | 16 | 28 | 26 | 18 | 12 | 15 | 12 | 4 | 0 | 0 |
| 148 | Other | Non-Participating | 344814.31 | 4758346.14 | 16 | 27 | 29 | 22 | 16 | 16 | 8 | 0 | 0 | 0 |
| 806 | Uninhabitable Structure | Non-Participating | 344769.59 | 4757445.31 | 15 | 27 | 26 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 257 | Other | Non-Participating | 344766.71 | 4757471.68 | 15 | 27 | 26 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 256 | Other | Non-Participating | 344774.52 | 4757418.40 | 15 | 26 | 25 | 22 | 16 | 15 | 9 | 0 | 0 | 0 |
| 495 | Other | Non-Participating | 347148.75 | 4755895.26 | 15 | 27 | 26 | 18 | 12 | 14 | 11 | 3 | 0 | 0 |
| 491 | Other | Non-Participating | 347087.55 | 4756055.27 | 15 | 28 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 393 | Other | Non-Participating | 346467.99 | 4753730.90 | 15 | 25 | 24 | 18 | 13 | 14 | 11 | 5 | 0 | 0 |
| 480 | Other | Non-Participating | 346989.18 | 4756319.19 | 15 | 27 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 478 | Other | Non-Participating | 347017.73 | 4756325.28 | 15 | 27 | 26 | 19 | 12 | 14 | 11 | 3 | 0 | 0 |
| 479 | Other | Non-Participating | 347083.94 | 4756324.61 | 15 | 28 | 26 | 18 | 12 | 14 | 11 | 2 | 0 | 0 |
| 493 | Other | Non-Participating | 347168.83 | 4756008.40 | 15 | 27 | 26 | 18 | 12 | 14 | 11 | 3 | 0 | 0 |
| 328 | Other | Non-Participating | 344565.33 | 4753686.02 | 15 | 22 | 21 | 20 | 14 | 14 | 9 | 3 | 0 | 0 |
| 498 | Other | Non-Participating | 347136.66 | 4755555.83 | 15 | 26 | 25 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 483 | Other | Non-Participating | 347154.60 | 4756312.38 | 15 | 27 | 26 | 18 | 12 | 14 | 10 | 2 | 0 | 0 |
| 510 | Other | Non-Participating | 347322.58 | 4754671.97 | 15 | 27 | 26 | 18 | 11 | 14 | 10 | 2 | 0 | 0 |
| 492 | Other | Non-Participating | 347240.78 | 4756079.78 | 14 | 27 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 852 | Other | Non-Participating | 347136.35 | 4756355.44 | 14 | 27 | 25 | 18 | 12 | 13 | 10 | 1 | 0 | 0 |
| 246 | Other | Non-Participating | 345820.18 | 4757533.42 | 14 | 26 | 25 | 20 | 13 | 14 | 9 | 0 | 0 | 0 |
| 326 | Other | Non-Participating | 344512.99 | 4753560.32 | 14 | 21 | 21 | 20 | 14 | 14 | 8 | 1 | 0 | 0 |
| 762 | Other | Non-Participating | 345269.42 | 4757472.02 | 14 | 23 | 23 | 21 | 14 | 14 | 8 | 0 | 0 | 0 |
| 394 | Other | Non-Participating | 346467.08 | 4753763.79 | 14 | 24 | 22 | 18 | 12 | 13 | 9 | 3 | 0 | 0 |
| 509 | Other | Non-Participating | 347350.43 | 4754630.54 | 14 | 26 | 25 | 17 | 11 | 13 | 9 | 0 | 0 | 0 |
| 828 | Uninhabitable Structure | Non-Participating | 346948.28 | 4756514.99 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 254 | Other | Non-Participating | 344866.21 | 4757593.95 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 831 | Uninhabitable Structure | Non-Participating | 346937.14 | 4756538.50 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 808 | Uninhabitable Structure | Non-Participating | 346930.53 | 4756555.85 | 14 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 253 | Other | Non-Participating | 344861.01 | 4757625.27 | 14 | 20 | 21 | 21 | 15 | 14 | 6 | 0 | 0 | 0 |
| 807 | Uninhabitable Structure | Non-Participating | 346975.95 | 4756520.99 | 13 | 26 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 248 | Other | Non-Participating | 345633.26 | 4757422.62 | 13 | 23 | 22 | 20 | 13 | 13 | 8 | 0 | 0 | 0 |
| 853 | Uninhabitable Structure | Non-Participating | 346972.72 | 4756556.66 | 13 | 25 | 24 | 18 | 12 | 13 | 9 | 0 | 0 | 0 |
| 475 | Other | Non-Participating | 347014.28 | 4756511.93 | 13 | 25 | 24 | 18 | 12 | 13 | 8 | 0 | 0 | 0 |
| 247 | Other | Non-Participating | 345605.29 | 4757515.31 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 765 | Other | Non-Participating | 345619.15 | 4757505.94 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 766 | Other | Non-Participating | 345620.75 | 4757514.18 | 13 | 23 | 23 | 20 | 13 | 13 | 7 | 0 | 0 | 0 |
| 473 | Other | Non-Participating | 346960.27 | 4756666.03 | 13 | 25 | 24 | 18 | 12 | 12 | 8 | 0 | 0 | 0 |
| 453 | Other | Non-Participating | 346917.07 | 4757135.20 | 13 | 26 | 25 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 472 | Other | Non-Participating | 346973.97 | 4756666.07 | 13 | 25 | 24 | 18 | 11 | 12 | 8 | 0 | 0 | 0 |
| 464 | Other | Non-Participating | 346953.72 | 4756818.92 | 13 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 466 | Other | Non-Participating | 346949.68 | 4756830.56 | 13 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 459 | Other | Non-Participating | 346945.50 | 4756899.73 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 859 | Other | Non-Participating | 347059.98 | 4756830.44 | 12 | 25 | 24 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 207 | Other | Non-Participating | 346621.58 | 4757421.38 | 12 | 25 | 23 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 209 | Other | Non-Participating | 346691.14 | 4757371.22 | 12 | 25 | 23 | 18 | 11 | 12 | 7 | 0 | 0 | 0 |
| 147 | Other | Non-Participating | 344668.06 | 4758223.42 | 12 | 19 | 20 | 20 | 14 | 12 | 3 | 0 | 0 | 0 |
| 454 | Other | Non-Participating | 346989.92 | 4757109.18 | 12 | 25 | 24 | 17 | 11 | 11 | 7 | 0 | 0 | 0 |
| 458 | Other | Non-Participating | 346936.05 | 4757011.59 | 12 | 25 | 23 | 18 | 11 | 11 | 7 | 0 | 0 | 0 |
| 465 | Other | Non-Participating | 347072.51 | 4756840.73 | 12 | 25 | 24 | 17 | 11 | 11 | 7 | 0 | 0 | 0 |
| 204 | Other | Non-Participating | 346598.85 | 4757524.80 | 12 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 206 | Other | Non-Participating | 346652.37 | 4757531.85 | 11 | 24 | 23 | 18 | 11 | 11 | 6 | 0 | 0 | 0 |
| 205 | Other | Non-Participating | 346575.86 | 4757453.72 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 210 | Other | Non-Participating | 346776.72 | 4757329.07 | 11 | 23 | 22 | 17 | 11 | 11 | 5 | 0 | 0 | 0 |
| 202 | Other | Non-Participating | 346447.38 | 4757544.52 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 203 | Other | Non-Participating | 346532.00 | 4757558.29 | 11 | 23 | 22 | 18 | 11 | 11 | 5 | 0 | 0 | 0 |
| 224 | Other | Non-Participating | 346984.29 | 4757198.04 | 11 | 24 | 22 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 226 | Other | Non-Participating | 347424.93 | 4756881.20 | 10 | 24 | 23 | 17 | 10 | 10 | 5 | 0 | 0 | 0 |
| 167 | Other | Non-Participating | 346568.66 | 4757953.94 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 798 | Other | Non-Participating | 346590.78 | 4757945.43 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 233 | Other | Non-Participating | 346166.73 | 4757596.27 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 837 | Other | Non-Participating | 347476.47 | 4756891.71 | 10 | 24 | 23 | 16 | 9 | 10 | 4 | 0 | 0 | 0 |
| 221 | Other | Non-Participating | 347254.65 | 4757180.75 | 10 | 24 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 805 | Other | Non-Participating | 347215.74 | 4757214.36 | 10 | 23 | 22 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 165 | Other | Non-Participating | 346607.61 | 4757989.47 | 10 | 24 | 23 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 211 | Other | Non-Participating | 346860.04 | 4757434.51 | 10 | 22 | 21 | 17 | 10 | 10 | 4 | 0 | 0 | 0 |
| 193 | Other | Non-Participating | 346492.56 | 4757737.31 | 10 | 22 | 21 | 17 | 11 | 10 | 4 | 0 | 0 | 0 |
| 164 | Other | Non-Participating | 346558.68 | 4758092.37 | 10 | 24 | 22 | 17 | 10 | 10 | 3 | 0 | 0 | 0 |
| 763 | Other | Non-Participating | 346384.56 | 4757646.17 | 10 | 21 | 20 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 175 | Other | Non-Participating | 346684.68 | 4758030.57 | 10 | 24 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 863 | Other | Non-Participating | 346540.48 | 4757849.85 | 10 | 22 | 21 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 764 | Other | Non-Participating | 346233.13 | 4757645.86 | 10 | 18 | 19 | 18 | 11 | 10 | 2 | 0 | 0 | 0 |
| 225 | Other | Non-Participating | 347480.78 | 4757039.38 | 10 | 24 | 22 | 16 | 9 | 9 | 4 | 0 | 0 | 0 |
| 176 | Other | Non-Participating | 346790.46 | 4758018.25 | 10 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 227 | Other | Non-Participating | 347635.58 | 4756869.86 | 9 | 24 | 22 | 16 | 9 | 9 | 4 | 0 | 0 | 0 |

**Table 7-5.1n_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 177 | Other | Non-Participating | 346744.85 | 4758056.63 | 9 | 23 | 22 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| 185 | Other | Non-Participating | 347225.41 | 4757942.58 | 9 | 24 | 22 | 16 | 9 | 9 | 3 | 0 | 0 | 0 |
| 756 | Other | Non-Participating | 347193.24 | 4757999.03 | 9 | 24 | 22 | 16 | 9 | 9 | 3 | 0 | 0 | 0 |
| 208 | Other | Non-Participating | 346710.58 | 4757480.64 | 9 | 18 | 18 | 17 | 10 | 9 | 1 | 0 | 0 | 0 |
| 184 | Other | Non-Participating | 347004.24 | 4758110.86 | 9 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 755 | Other | Non-Participating | 346999.10 | 4758167.47 | 8 | 23 | 22 | 16 | 9 | 8 | 2 | 0 | 0 | 0 |
| 166 | Other | Non-Participating | 346594.48 | 4758148.35 | 8 | 21 | 20 | 17 | 9 | 8 | 1 | 0 | 0 | 0 |
| 864 | Other | Non-Participating | 346527.02 | 4758297.68 | 8 | 21 | 21 | 17 | 9 | 8 | 1 | 0 | 0 | 0 |
| 219 | Other | Non-Participating | 347030.12 | 4757291.60 | 8 | 17 | 17 | 16 | 10 | 8 | 0 | 0 | 0 | 0 |
| 841 | Other | Non-Participating | 347052.30 | 4757300.43 | 8 | 17 | 17 | 16 | 9 | 8 | 0 | 0 | 0 | 0 |
| 220 | Other | Non-Participating | 347053.57 | 4757325.00 | 8 | 17 | 17 | 16 | 9 | 8 | 0 | 0 | 0 | 0 |
| 180 | Other | Non-Participating | 346878.61 | 4757912.60 | 7 | 17 | 17 | 16 | 9 | 7 | 0 | 0 | 0 | 0 |
| 155 | Other | Non-Participating | 346510.62 | 4758808.69 | 7 | 21 | 20 | 16 | 8 | 7 | 0 | 0 | 0 | 0 |
| 827 | Other | Non-Participating | 346508.30 | 4758811.52 | 7 | 21 | 20 | 16 | 8 | 7 | 0 | 0 | 0 | 0 |
| 154 | Other | Non-Participating | 346546.71 | 4758698.24 | 7 | 19 | 19 | 16 | 8 | 6 | 0 | 0 | 0 | 0 |
| 800 | Other | Non-Participating | 346560.55 | 4759087.19 | 6 | 21 | 20 | 15 | 8 | 6 | 0 | 0 | 0 | 0 |
| 857 | Other | Non-Participating | 346523.43 | 4759147.96 | 6 | 21 | 20 | 15 | 8 | 6 | 0 | 0 | 0 | 0 |
| 189 | Other | Non-Participating | 347460.41 | 4758177.07 | 5 | 15 | 16 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 188 | Other | Non-Participating | 347479.42 | 4758337.78 | 5 | 15 | 15 | 14 | 7 | 4 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Other Receptors | | | | | | | | | | | | | | |
| **298** | **Other** | **Non-Participating** | **344893.11** | **4755526.71** | **38** | **42** | **41** | **35** | **28** | **32** | **32** | **34** | **20** | **0** |
| **188** | **Other** | **Non-Participating** | **347479.42** | **4758337.78** | **5** | **15** | **15** | **14** | **7** | **4** | **0** | **0** | **0** | **0** |

**Table 7-5.1o_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Other and Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 291 | Other | Participating | 344761.38 | 4755758.23 | 35 | 40 | 39 | 33 | 26 | 30 | 30 | 31 | 15 | 0 |
| 292 | Other | Participating | 344765.27 | 4755710.81 | 37 | 41 | 40 | 34 | 27 | 31 | 31 | 33 | 18 | 0 |
| 295 | Other | Participating | 344801.35 | 4755687.97 | 37 | 41 | 40 | 34 | 27 | 32 | 32 | 34 | 19 | 0 |
| 619 | Uninhabitable Structure | Participating | 341999.71 | 4754243.74 | 33 | 37 | 36 | 30 | 23 | 28 | 27 | 29 | 12 | 0 |
| 674 | Other | Participating | 343738.10 | 4755835.87 | 26 | 32 | 36 | 30 | 24 | 26 | 20 | 13 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Other Receptors | | | | | | | | | | | | | | |
| **295** | **Other** | **Participating** | **344801.35** | **4755687.97** | **37** | **41** | **40** | **34** | **27** | **32** | **32** | **34** | **19** | **0** |
| **674** | **Other** | **Participating** | **343738.10** | **4755835.87** | **26** | **32** | **36** | **30** | **24** | **26** | **20** | **13** | **0** | **0** |

**Table 7-5.1p_Revised: Unmitigated Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Other and Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 295 | Other | Participating | 344801.35 | 4755687.97 | 37 | 41 | 40 | 34 | 27 | 32 | 32 | 34 | 19 | 0 |
| 292 | Other | Participating | 344765.27 | 4755710.81 | 37 | 41 | 40 | 34 | 27 | 31 | 31 | 33 | 18 | 0 |
| 291 | Other | Participating | 344761.38 | 4755758.23 | 35 | 40 | 39 | 33 | 26 | 30 | 30 | 31 | 15 | 0 |
| 619 | Uninhabitable Structure | Participating | 341999.71 | 4754243.74 | 33 | 37 | 36 | 30 | 23 | 28 | 27 | 29 | 12 | 0 |
| 674 | Other | Participating | 343738.10 | 4755835.87 | 26 | 32 | 36 | 30 | 24 | 26 | 20 | 13 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Other Receptors | | | | | | | | | | | | | | |
| **295** | **Other** | **Participating** | **344801.35** | **4755687.97** | **37** | **41** | **40** | **34** | **27** | **32** | **32** | **34** | **19** | **0** |
| **674** | **Other** | **Participating** | **343738.10** | **4755835.87** | **26** | **32** | **36** | **30** | **24** | **26** | **20** | **13** | **0** | **0** |

# Appendix 7-6

## Collector Substation Modeled Sound Levels – $L_{eq}$ (1-hour)

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1 | Residence | Non-Participating | 340426.95 | 4757902.14 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 2 | Residence | Non-Participating | 340415.40 | 4757879.73 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 3 | Residence | Non-Participating | 340379.40 | 4757860.89 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 4 | Residence | Non-Participating | 340417.28 | 4757863.52 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 5 | Residence | Non-Participating | 340393.75 | 4757848.01 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 6 | Residence | Non-Participating | 340383.78 | 4757826.93 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 7 | Residence | Non-Participating | 340360.48 | 4757816.12 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 8 | Residence | Non-Participating | 340361.08 | 4757799.40 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 9 | Residence | Non-Participating | 340375.63 | 4757805.66 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 10 | Residence | Non-Participating | 340392.94 | 4757813.23 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 11 | Residence | Non-Participating | 340415.74 | 4757822.22 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 12 | Residence | Non-Participating | 340426.38 | 4757814.28 | 16 | 24 | 29 | 23 | 17 | 17 | 8 | 0 | 0 | 0 |
| 13 | Residence | Non-Participating | 340356.52 | 4757766.62 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 14 | Residence | Non-Participating | 340381.67 | 4757778.49 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 15 | Residence | Non-Participating | 340373.01 | 4757760.13 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 16 | Residence | Non-Participating | 340392.58 | 4757765.46 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 17 | Residence | Non-Participating | 340431.69 | 4757800.09 | 16 | 24 | 29 | 23 | 17 | 17 | 8 | 0 | 0 | 0 |
| 18 | Residence | Non-Participating | 340434.52 | 4757786.99 | 16 | 24 | 30 | 23 | 17 | 17 | 8 | 0 | 0 | 0 |
| 19 | Residence | Non-Participating | 340435.24 | 4757774.39 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 20 | Residence | Non-Participating | 340440.05 | 4757739.88 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 21 | Residence | Non-Participating | 340426.49 | 4757726.13 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 22 | Residence | Non-Participating | 340417.11 | 4757719.43 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 23 | Residence | Non-Participating | 340406.47 | 4757709.18 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 24 | Residence | Non-Participating | 340402.69 | 4757735.36 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 25 | Residence | Non-Participating | 340358.76 | 4757734.29 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 26 | Residence | Non-Participating | 340343.14 | 4757736.96 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 27 | Residence | Non-Participating | 340333.94 | 4757739.98 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 28 | Residence | Non-Participating | 340348.74 | 4757756.79 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 29 | Residence | Non-Participating | 340335.17 | 4757754.68 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 30 | Residence | Non-Participating | 340316.69 | 4757693.55 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 31 | Residence | Non-Participating | 340327.13 | 4757705.69 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 32 | Residence | Non-Participating | 340337.92 | 4757699.32 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 33 | Residence | Non-Participating | 340369.33 | 4757703.00 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 34 | Residence | Non-Participating | 340351.98 | 4757702.14 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 35 | Residence | Non-Participating | 340376.25 | 4757679.84 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 36 | Residence | Non-Participating | 340362.59 | 4757673.22 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 37 | Residence | Non-Participating | 340389.16 | 4757646.84 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 38 | Residence | Non-Participating | 340401.47 | 4757658.00 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 39 | Residence | Non-Participating | 340419.72 | 4757656.24 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 40 | Residence | Non-Participating | 340436.18 | 4757685.60 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 41 | Residence | Non-Participating | 340416.88 | 4757682.16 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 42 | Residence | Non-Participating | 340311.86 | 4757613.40 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 43 | Residence | Non-Participating | 340328.24 | 4757613.81 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 44 | Residence | Non-Participating | 340346.55 | 4757615.12 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 45 | Residence | Non-Participating | 340396.72 | 4757619.64 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 46 | Residence | Non-Participating | 340430.67 | 4757620.19 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 47 | Residence | Non-Participating | 340451.14 | 4757622.89 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 48 | Residence | Non-Participating | 340489.24 | 4757629.76 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 49 | Residence | Non-Participating | 340504.05 | 4757634.71 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 50 | Residence | Non-Participating | 340520.00 | 4757636.78 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 51 | Residence | Non-Participating | 340532.64 | 4757639.87 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 52 | Residence | Non-Participating | 340439.48 | 4757659.66 | 12 | 13 | 19 | 20 | 14 | 12 | 2 | 0 | 0 | 0 |
| 53 | Residence | Non-Participating | 340449.09 | 4757653.07 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 54 | Residence | Non-Participating | 340494.12 | 4757661.72 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 55 | Residence | Non-Participating | 340507.19 | 4757675.24 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 56 | Residence | Non-Participating | 340516.67 | 4757661.53 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 57 | Residence | Non-Participating | 340526.30 | 4757681.53 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 58 | Residence | Non-Participating | 340535.51 | 4757666.16 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 59 | Residence | Non-Participating | 340543.72 | 4757686.18 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 60 | Residence | Non-Participating | 340552.67 | 4757670.35 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 61 | Residence | Non-Participating | 340563.24 | 4757689.61 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 62 | Residence | Non-Participating | 340570.13 | 4757677.14 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 63 | Residence | Non-Participating | 340579.71 | 4757694.29 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 64 | Residence | Non-Participating | 340452.34 | 4757699.53 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 65 | Residence | Non-Participating | 340498.34 | 4757709.35 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 66 | Residence | Non-Participating | 340507.38 | 4757698.02 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 67 | Residence | Non-Participating | 340523.89 | 4757717.41 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 68 | Residence | Non-Participating | 340543.46 | 4757723.22 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 69 | Residence | Non-Participating | 340542.91 | 4757706.37 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 70 | Residence | Non-Participating | 340458.72 | 4757722.91 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 71 | Residence | Non-Participating | 340599.54 | 4757751.59 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 72 | Residence | Non-Participating | 340628.17 | 4757746.55 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 73 | Residence | Non-Participating | 340635.45 | 4757729.55 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 74 | Residence | Non-Participating | 340633.05 | 4757715.60 | 17 | 24 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 75 | Residence | Non-Participating | 340634.72 | 4757766.84 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 76 | Residence | Non-Participating | 340631.72 | 4757783.98 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 77 | Residence | Non-Participating | 340624.23 | 4757802.16 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 78 | Residence | Non-Participating | 340599.68 | 4757783.87 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 79 | Residence | Non-Participating | 340582.48 | 4757778.03 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 80 | Residence | Non-Participating | 340555.61 | 4757775.68 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 81 | Residence | Non-Participating | 340547.91 | 4757795.53 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 82 | Residence | Non-Participating | 340539.13 | 4757808.04 | 12 | 13 | 19 | 20 | 14 | 12 | 2 | 0 | 0 | 0 |
| 83 | Residence | Non-Participating | 340561.25 | 4757823.29 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 84 | Residence | Non-Participating | 340568.27 | 4757842.86 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 85 | Residence | Non-Participating | 340444.57 | 4757866.55 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 86 | Residence | Non-Participating | 340445.67 | 4757849.44 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 87 | Residence | Non-Participating | 340446.33 | 4757833.76 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 88 | Residence | Non-Participating | 340452.78 | 4757899.39 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 89 | Residence | Non-Participating | 340473.15 | 4757909.45 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 90 | Residence | Non-Participating | 340496.73 | 4757900.94 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 91 | Residence | Non-Participating | 340536.12 | 4757913.02 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 92 | Residence | Non-Participating | 340540.23 | 4757832.03 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 93 | Residence | Non-Participating | 340510.49 | 4757825.92 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 94 | Residence | Non-Participating | 340498.81 | 4757836.99 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 95 | Residence | Non-Participating | 340560.50 | 4757390.93 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 96 | Residence | Non-Participating | 340552.99 | 4757339.53 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 97 | Residence | Non-Participating | 341120.31 | 4757471.02 | 16 | 16 | 22 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 98 | Residence | Non-Participating | 341366.49 | 4757368.40 | 17 | 18 | 23 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 102 | Residence | Non-Participating | 341656.56 | 4757542.28 | 23 | 29 | 34 | 28 | 23 | 24 | 17 | 4 | 0 | 0 |
| 103 | Residence | Non-Participating | 341698.26 | 4757535.20 | 24 | 29 | 35 | 29 | 23 | 24 | 17 | 4 | 0 | 0 |
| 104 | Residence | Non-Participating | 341741.26 | 4757536.39 | 24 | 29 | 35 | 29 | 23 | 24 | 18 | 5 | 0 | 0 |
| 105 | Residence | Non-Participating | 341814.04 | 4757521.56 | 24 | 29 | 35 | 29 | 24 | 24 | 18 | 6 | 0 | 0 |
| 109 | Residence | Non-Participating | 341951.65 | 4757450.49 | 25 | 30 | 36 | 30 | 25 | 26 | 20 | 8 | 0 | 0 |
| 110 | Residence | Non-Participating | 341934.64 | 4757596.93 | 24 | 29 | 35 | 29 | 24 | 24 | 18 | 6 | 0 | 0 |
| 111 | Residence | Non-Participating | 341939.66 | 4757635.22 | 24 | 29 | 35 | 29 | 23 | 24 | 18 | 5 | 0 | 0 |
| 112 | Residence | Non-Participating | 341887.26 | 4757697.81 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 113 | Residence | Non-Participating | 341918.41 | 4757754.52 | 18 | 18 | 24 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 114 | Residence | Non-Participating | 341855.91 | 4757767.16 | 18 | 18 | 24 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 115 | Residence | Non-Participating | 341933.81 | 4757841.90 | 22 | 28 | 34 | 28 | 22 | 23 | 16 | 2 | 0 | 0 |
| 116 | Residence | Non-Participating | 341927.88 | 4757876.97 | 22 | 28 | 34 | 28 | 22 | 22 | 16 | 2 | 0 | 0 |
| 118 | Residence | Non-Participating | 341933.48 | 4757946.20 | 22 | 27 | 33 | 27 | 21 | 22 | 15 | 1 | 0 | 0 |
| 122 | Residence | Non-Participating | 342155.76 | 4757532.88 | 26 | 30 | 36 | 30 | 25 | 26 | 20 | 8 | 0 | 0 |
| 123 | Residence | Non-Participating | 342399.46 | 4757481.02 | 22 | 21 | 27 | 28 | 23 | 22 | 14 | 3 | 0 | 0 |
| 124 | Residence | Non-Participating | 342489.13 | 4757480.35 | 22 | 21 | 27 | 28 | 23 | 22 | 14 | 3 | 0 | 0 |
| 128 | Residence | Non-Participating | 342473.70 | 4757539.67 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 2 | 0 | 0 |
| 129 | Residence | Non-Participating | 342513.46 | 4757532.58 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 2 | 0 | 0 |
| 133 | Residence | Non-Participating | 342741.73 | 4757475.43 | 27 | 31 | 37 | 31 | 26 | 27 | 21 | 10 | 0 | 0 |
| 142 | Residence | Non-Participating | 342716.49 | 4756882.62 | 35 | 38 | 43 | 40 | 33 | 35 | 30 | 23 | 7 | 0 |
| 145 | Residence | Non-Participating | 343136.64 | 4756529.58 | 33 | 36 | 42 | 38 | 31 | 33 | 28 | 20 | 1 | 0 |
| 146 | Residence | Non-Participating | 344642.32 | 4758207.04 | 15 | 23 | 29 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 149 | Residence | Non-Participating | 344792.46 | 4758401.18 | 14 | 22 | 28 | 22 | 15 | 14 | 5 | 0 | 0 | 0 |
| 151 | Residence | Non-Participating | 346521.98 | 4759098.27 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 152 | Residence | Non-Participating | 346557.28 | 4758716.53 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 153 | Residence | Non-Participating | 346504.64 | 4758783.62 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 156 | Residence | Non-Participating | 346539.42 | 4758332.47 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 157 | Residence | Non-Participating | 346592.41 | 4758325.57 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 160 | Residence | Non-Participating | 346591.16 | 4758172.59 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 161 | Residence | Non-Participating | 346606.73 | 4758103.30 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 162 | Residence | Non-Participating | 346565.18 | 4758049.69 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 163 | Residence | Non-Participating | 346607.46 | 4758008.61 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 168 | Residence | Non-Participating | 346602.85 | 4757937.68 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 169 | Residence | Non-Participating | 346566.60 | 4757897.83 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 170 | Residence | Non-Participating | 346559.53 | 4757870.26 | 4 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 172 | Residence | Non-Participating | 346671.41 | 4758021.25 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 173 | Residence | Non-Participating | 346755.53 | 4758062.22 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 174 | Residence | Non-Participating | 346756.52 | 4757994.72 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 179 | Residence | Non-Participating | 346891.87 | 4757934.76 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 181 | Residence | Non-Participating | 346872.09 | 4758113.74 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 182 | Residence | Non-Participating | 346979.66 | 4758080.24 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 183 | Residence | Non-Participating | 346989.91 | 4758144.18 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 186 | Residence | Non-Participating | 347183.04 | 4758019.17 | 2 | 7 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 190 | Residence | Non-Participating | 346525.09 | 4757819.54 | 5 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 191 | Residence | Non-Participating | 346621.38 | 4757704.92 | 4 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 192 | Residence | Non-Participating | 346472.72 | 4757739.95 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 194 | Residence | Non-Participating | 346433.37 | 4757642.74 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 195 | Residence | Non-Participating | 346378.15 | 4757625.40 | 5 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 196 | Residence | Non-Participating | 346437.22 | 4757552.77 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 197 | Residence | Non-Participating | 346519.34 | 4757567.84 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 198 | Residence | Non-Participating | 346521.74 | 4757494.77 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 199 | Residence | Non-Participating | 346604.31 | 4757506.82 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 200 | Residence | Non-Participating | 346589.69 | 4757452.70 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 201 | Residence | Non-Participating | 346636.74 | 4757517.54 | 5 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 212 | Residence | Non-Participating | 346730.86 | 4757474.72 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 213 | Residence | Non-Participating | 346642.27 | 4757409.91 | 5 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 214 | Residence | Non-Participating | 346726.74 | 4757362.99 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 215 | Residence | Non-Participating | 346812.26 | 4757344.51 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 216 | Residence | Non-Participating | 346842.78 | 4757427.28 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 217 | Residence | Non-Participating | 347041.60 | 4757337.03 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 218 | Residence | Non-Participating | 347074.58 | 4757270.70 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 222 | Residence | Non-Participating | 347230.31 | 4757183.57 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 223 | Residence | Non-Participating | 346998.38 | 4757214.50 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 228 | Residence | Non-Participating | 347312.15 | 4757094.81 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 229 | Residence | Non-Participating | 347459.96 | 4757043.46 | 2 | 7 | 13 | 13 | 5 | 1 | 0 | 0 | 0 | 0 |
| 230 | Residence | Non-Participating | 347439.34 | 4756895.69 | 2 | 7 | 13 | 13 | 5 | 1 | 0 | 0 | 0 | 0 |
| 231 | Residence | Non-Participating | 347660.99 | 4756880.45 | 2 | 7 | 12 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 232 | Residence | Non-Participating | 346229.07 | 4757623.62 | 6 | 9 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 237 | Residence | Non-Participating | 345902.13 | 4757314.03 | 7 | 10 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 241 | Residence | Non-Participating | 346128.12 | 4757318.87 | 6 | 10 | 16 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 242 | Residence | Non-Participating | 346349.71 | 4757519.65 | 5 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 243 | Residence | Non-Participating | 345816.59 | 4757514.34 | 7 | 10 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 249 | Residence | Non-Participating | 345585.17 | 4757516.19 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 250 | Residence | Non-Participating | 345628.03 | 4757439.09 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 255 | Residence | Non-Participating | 344718.78 | 4757614.35 | 12 | 13 | 19 | 20 | 14 | 12 | 2 | 0 | 0 | 0 |
| 258 | Residence | Non-Participating | 344740.44 | 4757226.66 | 12 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 263 | Residence | Non-Participating | 344787.54 | 4757053.79 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 268 | Residence | Non-Participating | 344758.61 | 4757174.89 | 12 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 269 | Residence | Non-Participating | 344837.52 | 4756846.37 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 270 | Residence | Non-Participating | 344896.85 | 4756814.53 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 273 | Residence | Non-Participating | 344917.15 | 4756594.47 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 278 | Residence | Non-Participating | 344920.44 | 4756448.96 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 285 | Residence | Non-Participating | 344915.09 | 4756234.51 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 286 | Residence | Non-Participating | 344804.05 | 4755978.89 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 287 | Residence | Non-Participating | 344824.92 | 4755875.80 | 17 | 24 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 296 | Residence | Non-Participating | 344759.06 | 4755822.48 | 18 | 25 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 297 | Residence | Non-Participating | 344880.76 | 4755539.53 | 16 | 24 | 30 | 23 | 17 | 17 | 9 | 0 | 0 | 0 |
| 300 | Residence | Non-Participating | 344887.97 | 4755337.56 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 301 | Residence | Non-Participating | 344832.24 | 4755261.10 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 306 | Residence | Non-Participating | 344854.42 | 4754809.39 | 15 | 23 | 29 | 22 | 16 | 15 | 6 | 0 | 0 | 0 |
| 307 | Residence | Non-Participating | 344729.29 | 4754432.85 | 14 | 22 | 28 | 22 | 15 | 14 | 5 | 0 | 0 | 0 |
| 311 | Residence | Non-Participating | 344777.42 | 4754209.65 | 9 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 312 | Residence | Non-Participating | 344793.06 | 4754267.19 | 9 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 313 | Residence | Non-Participating | 344860.89 | 4754191.95 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 314 | Residence | Non-Participating | 344933.89 | 4754203.16 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 315 | Residence | Non-Participating | 344696.60 | 4754138.38 | 9 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 316 | Residence | Non-Participating | 344604.51 | 4754158.21 | 9 | 11 | 17 | 18 | 11 | 9 | 0 | 0 | 0 | 0 |
| 317 | Residence | Non-Participating | 344551.25 | 4754171.02 | 9 | 12 | 17 | 18 | 12 | 9 | 0 | 0 | 0 | 0 |
| 323 | Residence | Non-Participating | 344676.10 | 4754061.41 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 324 | Residence | Non-Participating | 344573.74 | 4753714.59 | 8 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 327 | Residence | Non-Participating | 344605.69 | 4753468.08 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 333 | Residence | Non-Participating | 344965.25 | 4754161.95 | 8 | 11 | 16 | 18 | 10 | 8 | 0 | 0 | 0 | 0 |
| 334 | Residence | Non-Participating | 345067.43 | 4754185.46 | 8 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 335 | Residence | Non-Participating | 345005.86 | 4754085.14 | 8 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 336 | Residence | Non-Participating | 345113.64 | 4754045.34 | 7 | 10 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 337 | Residence | Non-Participating | 345207.01 | 4754096.21 | 7 | 10 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 342 | Residence | Non-Participating | 345122.61 | 4754187.44 | 12 | 21 | 27 | 20 | 13 | 12 | 3 | 0 | 0 | 0 |
| 343 | Residence | Non-Participating | 345309.01 | 4753990.29 | 6 | 10 | 16 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 344 | Residence | Non-Participating | 345350.76 | 4753974.15 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 345 | Residence | Non-Participating | 345389.85 | 4753977.44 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 347 | Residence | Non-Participating | 345451.90 | 4754063.15 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 357 | Residence | Non-Participating | 345730.74 | 4753832.88 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 358 | Residence | Non-Participating | 345740.37 | 4753990.99 | 5 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 359 | Residence | Non-Participating | 345810.43 | 4753913.62 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 360 | Residence | Non-Participating | 345887.62 | 4753894.04 | 5 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 361 | Residence | Non-Participating | 345954.47 | 4753874.15 | 4 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 365 | Residence | Non-Participating | 346020.19 | 4753784.54 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 366 | Residence | Non-Participating | 346081.11 | 4753760.18 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 367 | Residence | Non-Participating | 346197.66 | 4753724.02 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 368 | Residence | Non-Participating | 346243.77 | 4753712.08 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 369 | Residence | Non-Participating | 346285.96 | 4753772.97 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 370 | Residence | Non-Participating | 346281.32 | 4753700.04 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 382 | Residence | Non-Participating | 346180.56 | 4753805.18 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 383 | Residence | Non-Participating | 346328.56 | 4753679.96 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 388 | Residence | Non-Participating | 346367.60 | 4753668.58 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 389 | Residence | Non-Participating | 346406.24 | 4753651.72 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 390 | Residence | Non-Participating | 346442.80 | 4753637.95 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 391 | Residence | Non-Participating | 346483.75 | 4753630.78 | 3 | 7 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 397 | Residence | Non-Participating | 346396.41 | 4753727.99 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 398 | Residence | Non-Participating | 346371.98 | 4753739.71 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 399 | Residence | Non-Participating | 346348.39 | 4753747.46 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 400 | Residence | Non-Participating | 346198.84 | 4753902.44 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 401 | Residence | Non-Participating | 346195.19 | 4753951.20 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 402 | Residence | Non-Participating | 346191.02 | 4754004.53 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 403 | Residence | Non-Participating | 346196.64 | 4754044.30 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 404 | Residence | Non-Participating | 346196.70 | 4754095.73 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 405 | Residence | Non-Participating | 346186.16 | 4754150.10 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 408 | Residence | Non-Participating | 346181.88 | 4754197.96 | 4 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 409 | Residence | Non-Participating | 346184.44 | 4754252.69 | 4 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 410 | Residence | Non-Participating | 346181.23 | 4754292.62 | 5 | 9 | 14 | 15 | 7 | 4 | 0 | 0 | 0 | 0 |
| 411 | Residence | Non-Participating | 346174.30 | 4754344.48 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 412 | Residence | Non-Participating | 346169.26 | 4754400.57 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 413 | Residence | Non-Participating | 346166.22 | 4754449.02 | 5 | 9 | 14 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 414 | Residence | Non-Participating | 346164.13 | 4754547.97 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 415 | Residence | Non-Participating | 346156.92 | 4754601.67 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 416 | Residence | Non-Participating | 346151.83 | 4754654.71 | 5 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 417 | Residence | Non-Participating | 346150.78 | 4754695.82 | 5 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 418 | Residence | Non-Participating | 346147.04 | 4754771.67 | 5 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 419 | Residence | Non-Participating | 346078.13 | 4754765.05 | 6 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 422 | Residence | Non-Participating | 345984.67 | 4754908.94 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 426 | Residence | Non-Participating | 346155.68 | 4754875.28 | 6 | 9 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 427 | Residence | Non-Participating | 346121.39 | 4754993.70 | 6 | 9 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 428 | Residence | Non-Participating | 346115.88 | 4755104.89 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 429 | Residence | Non-Participating | 346035.86 | 4755267.69 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 430 | Residence | Non-Participating | 346097.46 | 4755306.40 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 434 | Residence | Non-Participating | 346048.83 | 4755180.71 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 435 | Residence | Non-Participating | 346019.10 | 4755476.78 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 440 | Residence | Non-Participating | 346128.92 | 4756573.04 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 441 | Residence | Non-Participating | 346137.14 | 4756621.88 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 442 | Residence | Non-Participating | 346143.75 | 4756649.45 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 443 | Residence | Non-Participating | 346150.78 | 4756683.40 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 444 | Residence | Non-Participating | 346171.67 | 4756774.61 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 445 | Residence | Non-Participating | 346166.51 | 4756807.58 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 446 | Residence | Non-Participating | 346206.66 | 4756854.91 | 6 | 10 | 16 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 449 | Residence | Non-Participating | 346144.95 | 4756971.71 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 450 | Residence | Non-Participating | 346929.93 | 4757155.66 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 451 | Residence | Non-Participating | 346993.73 | 4757085.07 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 452 | Residence | Non-Participating | 346981.93 | 4757153.16 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 455 | Residence | Non-Participating | 347013.28 | 4757024.14 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 456 | Residence | Non-Participating | 346935.24 | 4757033.22 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 457 | Residence | Non-Participating | 346952.92 | 4756970.50 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 460 | Residence | Non-Participating | 346951.26 | 4756882.27 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 461 | Residence | Non-Participating | 347009.07 | 4756833.10 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 462 | Residence | Non-Participating | 346958.22 | 4756799.36 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 463 | Residence | Non-Participating | 347013.15 | 4756775.20 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 467 | Residence | Non-Participating | 346957.23 | 4756843.81 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 468 | Residence | Non-Participating | 346961.55 | 4756701.61 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 469 | Residence | Non-Participating | 346920.15 | 4756765.69 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 470 | Residence | Non-Participating | 347014.45 | 4756650.09 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 471 | Residence | Non-Participating | 346970.46 | 4756641.49 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 474 | Residence | Non-Participating | 347015.82 | 4756529.25 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 476 | Residence | Non-Participating | 347005.28 | 4756377.71 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 477 | Residence | Non-Participating | 347073.65 | 4756357.53 | 4 | 8 | 14 | 14 | 6 | 3 | 0 | 0 | 0 | 0 |
| 481 | Residence | Non-Participating | 347019.94 | 4756308.48 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 482 | Residence | Non-Participating | 347169.18 | 4756279.77 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 485 | Residence | Non-Participating | 347016.30 | 4756228.89 | 4 | 8 | 14 | 14 | 7 | 3 | 0 | 0 | 0 | 0 |
| 486 | Residence | Non-Participating | 347088.40 | 4756084.47 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 487 | Residence | Non-Participating | 347160.04 | 4756091.04 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 488 | Residence | Non-Participating | 347176.15 | 4755976.91 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 489 | Residence | Non-Participating | 347241.36 | 4755981.47 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 490 | Residence | Non-Participating | 347235.44 | 4756070.75 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 494 | Residence | Non-Participating | 347176.25 | 4756030.78 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 496 | Residence | Non-Participating | 347156.25 | 4755634.15 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 497 | Residence | Non-Participating | 347146.49 | 4755581.55 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 500 | Residence | Non-Participating | 347162.32 | 4755274.48 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 501 | Residence | Non-Participating | 347164.81 | 4755229.39 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 502 | Residence | Non-Participating | 347163.47 | 4755174.03 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 503 | Residence | Non-Participating | 347201.38 | 4755070.15 | 3 | 7 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 507 | Residence | Non-Participating | 347084.71 | 4755083.13 | 3 | 8 | 13 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 508 | Residence | Non-Participating | 347347.94 | 4754602.15 | 2 | 7 | 12 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 512 | Residence | Non-Participating | 344404.92 | 4754273.26 | 15 | 23 | 28 | 22 | 15 | 15 | 6 | 0 | 0 | 0 |
| 513 | Residence | Non-Participating | 344387.12 | 4754211.77 | 15 | 23 | 28 | 22 | 15 | 15 | 6 | 0 | 0 | 0 |
| 514 | Residence | Non-Participating | 344471.29 | 4754186.89 | 14 | 22 | 28 | 22 | 15 | 14 | 5 | 0 | 0 | 0 |
| 517 | Residence | Non-Participating | 344099.18 | 4754172.97 | 15 | 23 | 29 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 518 | Residence | Non-Participating | 343535.74 | 4754428.47 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 519 | Residence | Non-Participating | 343457.04 | 4754466.09 | 13 | 15 | 20 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 520 | Residence | Non-Participating | 343443.38 | 4754574.30 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 521 | Residence | Non-Participating | 343707.60 | 4754439.03 | 17 | 25 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 525 | Residence | Non-Participating | 343338.42 | 4754581.03 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 526 | Residence | Non-Participating | 343277.64 | 4754585.97 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 527 | Residence | Non-Participating | 343244.44 | 4754590.40 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 528 | Residence | Non-Participating | 343215.99 | 4754594.74 | 15 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 534 | Residence | Non-Participating | 343124.87 | 4754604.54 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 535 | Residence | Non-Participating | 343084.09 | 4754610.54 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 536 | Residence | Non-Participating | 343071.82 | 4754640.73 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 537 | Residence | Non-Participating | 343071.06 | 4754675.93 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 538 | Residence | Non-Participating | 343074.43 | 4754703.45 | 15 | 16 | 22 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 539 | Residence | Non-Participating | 343012.65 | 4754629.48 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 540 | Residence | Non-Participating | 343009.26 | 4754702.30 | 16 | 16 | 22 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 541 | Residence | Non-Participating | 343013.80 | 4754539.11 | 15 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 542 | Residence | Non-Participating | 343016.27 | 4754468.21 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 543 | Residence | Non-Participating | 343016.09 | 4754408.30 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 544 | Residence | Non-Participating | 343097.49 | 4754362.54 | 13 | 15 | 20 | 22 | 15 | 14 | 4 | 0 | 0 | 0 |
| 545 | Residence | Non-Participating | 343027.72 | 4754318.68 | 13 | 14 | 20 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 546 | Residence | Non-Participating | 343034.93 | 4754222.02 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 551 | Residence | Non-Participating | 343162.81 | 4754144.48 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 552 | Residence | Non-Participating | 343149.95 | 4754092.41 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 554 | Residence | Non-Participating | 343236.24 | 4753927.68 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 555 | Residence | Non-Participating | 343297.72 | 4753758.19 | 10 | 12 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 560 | Residence | Non-Participating | 343275.30 | 4753653.05 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 561 | Residence | Non-Participating | 343310.55 | 4753606.26 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 562 | Residence | Non-Participating | 343098.49 | 4753657.80 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 563 | Residence | Non-Participating | 343140.65 | 4753791.71 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 570 | Residence | Non-Participating | 343124.05 | 4753523.91 | 9 | 12 | 17 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 571 | Residence | Non-Participating | 343063.67 | 4753517.74 | 9 | 12 | 17 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 574 | Residence | Non-Participating | 342820.57 | 4753504.67 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 575 | Residence | Non-Participating | 342754.14 | 4753500.13 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 576 | Residence | Non-Participating | 342682.28 | 4753482.31 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 577 | Residence | Non-Participating | 342609.58 | 4753500.42 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 581 | Residence | Non-Participating | 342502.20 | 4753486.62 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 582 | Residence | Non-Participating | 342445.78 | 4753561.33 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 583 | Residence | Non-Participating | 342399.55 | 4753578.94 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 586 | Residence | Non-Participating | 342514.18 | 4753209.47 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 587 | Residence | Non-Participating | 342310.40 | 4753788.46 | 11 | 13 | 18 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 590 | Residence | Non-Participating | 342058.63 | 4753764.04 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 591 | Residence | Non-Participating | 342071.04 | 4753733.31 | 10 | 12 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 592 | Residence | Non-Participating | 341356.23 | 4753705.45 | 9 | 12 | 17 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 593 | Residence | Non-Participating | 341309.23 | 4753739.84 | 9 | 12 | 17 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 594 | Residence | Non-Participating | 341439.04 | 4753643.03 | 9 | 12 | 17 | 18 | 12 | 9 | 0 | 0 | 0 | 0 |
| 595 | Residence | Non-Participating | 341399.75 | 4753636.22 | 9 | 12 | 17 | 18 | 11 | 9 | 0 | 0 | 0 | 0 |
| 598 | Residence | Non-Participating | 341470.67 | 4753649.79 | 9 | 12 | 17 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 599 | Residence | Non-Participating | 341337.30 | 4753510.68 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 600 | Residence | Non-Participating | 341338.75 | 4753459.32 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 601 | Residence | Non-Participating | 341438.06 | 4753473.45 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 602 | Residence | Non-Participating | 341444.86 | 4753401.76 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 603 | Residence | Non-Participating | 341442.14 | 4753337.49 | 8 | 11 | 17 | 18 | 10 | 8 | 0 | 0 | 0 | 0 |
| 604 | Residence | Non-Participating | 341351.81 | 4753334.96 | 8 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 609 | Residence | Non-Participating | 341379.72 | 4753277.97 | 8 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 610 | Residence | Non-Participating | 341257.60 | 4753624.21 | 9 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 611 | Residence | Non-Participating | 341194.60 | 4753614.22 | 9 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 612 | Residence | Non-Participating | 341196.00 | 4753672.48 | 9 | 11 | 17 | 18 | 11 | 9 | 0 | 0 | 0 | 0 |
| 616 | Residence | Non-Participating | 341302.01 | 4753641.19 | 9 | 11 | 17 | 18 | 11 | 9 | 0 | 0 | 0 | 0 |
| 617 | Residence | Non-Participating | 342040.12 | 4753992.66 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 622 | Residence | Non-Participating | 342014.30 | 4754532.55 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 623 | Residence | Non-Participating | 341943.75 | 4754530.12 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 624 | Residence | Non-Participating | 342047.98 | 4754920.00 | 17 | 17 | 23 | 25 | 19 | 17 | 8 | 0 | 0 | 0 |
| 628 | Residence | Non-Participating | 342773.26 | 4754332.07 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 629 | Residence | Non-Participating | 342469.51 | 4754577.07 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 630 | Residence | Non-Participating | 342529.76 | 4754611.60 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 631 | Residence | Non-Participating | 342526.59 | 4754563.36 | 20 | 26 | 32 | 26 | 20 | 20 | 13 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 632 | Residence | Non-Participating | 342562.68 | 4754561.77 | 20 | 26 | 32 | 26 | 20 | 20 | 13 | 0 | 0 | 0 |
| 633 | Residence | Non-Participating | 342706.02 | 4754578.47 | 20 | 26 | 32 | 26 | 20 | 20 | 13 | 0 | 0 | 0 |
| 634 | Residence | Non-Participating | 342749.65 | 4754593.83 | 20 | 26 | 32 | 26 | 20 | 21 | 13 | 0 | 0 | 0 |
| 636 | Residence | Non-Participating | 342644.76 | 4754516.63 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 645 | Residence | Non-Participating | 342719.56 | 4754729.91 | 21 | 27 | 33 | 27 | 21 | 21 | 15 | 0 | 0 | 0 |
| 646 | Residence | Non-Participating | 342887.16 | 4754714.91 | 16 | 16 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 647 | Residence | Non-Participating | 342939.94 | 4754694.55 | 16 | 16 | 22 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 648 | Residence | Non-Participating | 342891.40 | 4754571.80 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 649 | Residence | Non-Participating | 342952.70 | 4754559.09 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 650 | Residence | Non-Participating | 343116.86 | 4754885.43 | 17 | 17 | 23 | 24 | 18 | 17 | 8 | 0 | 0 | 0 |
| 653 | Residence | Non-Participating | 343141.72 | 4755054.71 | 18 | 18 | 24 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 658 | Residence | Non-Participating | 343029.48 | 4755184.14 | 19 | 19 | 25 | 26 | 20 | 19 | 11 | 0 | 0 | 0 |
| 659 | Residence | Non-Participating | 342999.10 | 4755536.86 | 27 | 32 | 37 | 32 | 26 | 27 | 22 | 11 | 0 | 0 |
| 661 | Residence | Non-Participating | 343103.77 | 4755523.33 | 27 | 31 | 37 | 31 | 26 | 27 | 21 | 10 | 0 | 0 |
| 662 | Residence | Non-Participating | 343081.29 | 4755633.55 | 28 | 32 | 38 | 32 | 27 | 28 | 22 | 12 | 0 | 0 |
| 663 | Residence | Non-Participating | 343078.86 | 4755673.18 | 28 | 32 | 38 | 33 | 27 | 28 | 23 | 13 | 0 | 0 |
| 667 | Residence | Non-Participating | 343072.82 | 4755751.60 | 24 | 23 | 29 | 30 | 25 | 24 | 17 | 6 | 0 | 0 |
| 670 | Residence | Non-Participating | 343235.14 | 4755803.27 | 23 | 22 | 28 | 30 | 24 | 23 | 16 | 5 | 0 | 0 |
| 671 | Residence | Non-Participating | 343397.28 | 4755811.31 | 22 | 21 | 27 | 29 | 23 | 22 | 14 | 3 | 0 | 0 |
| 672 | Residence | Non-Participating | 343453.13 | 4755811.37 | 21 | 21 | 26 | 28 | 22 | 21 | 14 | 2 | 0 | 0 |
| 676 | Residence | Non-Participating | 343130.78 | 4756236.51 | 33 | 36 | 42 | 37 | 31 | 32 | 28 | 19 | 0 | 0 |
| 678 | Residence | Non-Participating | 342725.94 | 4755775.42 | 31 | 35 | 41 | 36 | 30 | 31 | 26 | 17 | 0 | 0 |
| 680 | Residence | Non-Participating | 342347.15 | 4755798.80 | 26 | 25 | 31 | 32 | 27 | 26 | 19 | 10 | 0 | 0 |
| 681 | Residence | Non-Participating | 342015.80 | 4756024.33 | 26 | 25 | 30 | 32 | 27 | 26 | 19 | 10 | 0 | 0 |
| 682 | Residence | Non-Participating | 341971.91 | 4756025.45 | 26 | 24 | 30 | 32 | 26 | 26 | 18 | 9 | 0 | 0 |
| 684 | Residence | Non-Participating | 341895.31 | 4756054.63 | 25 | 24 | 29 | 31 | 26 | 25 | 18 | 8 | 0 | 0 |
| 685 | Residence | Non-Participating | 341976.47 | 4756114.35 | 26 | 25 | 31 | 32 | 27 | 26 | 19 | 10 | 0 | 0 |
| 686 | Residence | Non-Participating | 341925.51 | 4756139.30 | 26 | 24 | 30 | 32 | 27 | 26 | 19 | 9 | 0 | 0 |
| 687 | Residence | Non-Participating | 341842.41 | 4756053.60 | 24 | 23 | 29 | 31 | 25 | 24 | 17 | 7 | 0 | 0 |
| 688 | Residence | Non-Participating | 341811.69 | 4756079.03 | 24 | 23 | 29 | 31 | 25 | 24 | 17 | 7 | 0 | 0 |
| 692 | Residence | Non-Participating | 341713.10 | 4756137.52 | 23 | 22 | 28 | 30 | 24 | 23 | 16 | 5 | 0 | 0 |
| 693 | Residence | Non-Participating | 341687.22 | 4756159.39 | 23 | 22 | 28 | 30 | 24 | 23 | 16 | 5 | 0 | 0 |
| 694 | Residence | Non-Participating | 341147.15 | 4756479.88 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 695 | Residence | Non-Participating | 340919.85 | 4756438.80 | 17 | 17 | 23 | 24 | 18 | 17 | 8 | 0 | 0 | 0 |
| 699 | Residence | Non-Participating | 340777.11 | 4756057.04 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 700 | Residence | Non-Participating | 340833.15 | 4755929.69 | 15 | 16 | 22 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 702 | Residence | Non-Participating | 340836.29 | 4755851.22 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 703 | Residence | Non-Participating | 340857.19 | 4755782.40 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 708 | Residence | Non-Participating | 340848.28 | 4755660.87 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 709 | Residence | Non-Participating | 340660.75 | 4755614.99 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 710 | Residence | Non-Participating | 340737.38 | 4755756.28 | 15 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 712 | Residence | Non-Participating | 340853.24 | 4755586.80 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 713 | Residence | Non-Participating | 340895.37 | 4755476.50 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 714 | Residence | Non-Participating | 340657.34 | 4755479.54 | 13 | 15 | 20 | 22 | 15 | 14 | 4 | 0 | 0 | 0 |
| 717 | Residence | Non-Participating | 340835.69 | 4755406.83 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 718 | Residence | Non-Participating | 340799.51 | 4755400.70 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |

**Table 7-6.1a_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 719 | Residence | Non-Participating | 340483.07 | 4755418.55 | 12 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 721 | Residence | Non-Participating | 340319.93 | 4755433.81 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 725 | Residence | Non-Participating | 340947.58 | 4755303.31 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 726 | Residence | Non-Participating | 340845.43 | 4755264.20 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 727 | Residence | Non-Participating | 341021.28 | 4755411.72 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 731 | Residence | Non-Participating | 341563.21 | 4755064.92 | 16 | 17 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 735 | Residence | Non-Participating | 340587.65 | 4757842.10 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 736 | Residence | Non-Participating | 340601.22 | 4757800.76 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 737 | Residence | Non-Participating | 340641.07 | 4757822.97 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 738 | Residence | Non-Participating | 340655.45 | 4757824.51 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 739 | Residence | Non-Participating | 340564.51 | 4757808.55 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 740 | Residence | Non-Participating | 340572.27 | 4757811.57 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 741 | Residence | Non-Participating | 340592.35 | 4757810.89 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 742 | Residence | Non-Participating | 340548.18 | 4757847.68 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 743 | Residence | Non-Participating | 340531.28 | 4757872.77 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 744 | Residence | Non-Participating | 340561.92 | 4757727.17 | 17 | 24 | 30 | 24 | 17 | 17 | 9 | 0 | 0 | 0 |
| 745 | Residence | Non-Participating | 340565.12 | 4757712.61 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 746 | Residence | Non-Participating | 340581.48 | 4757730.88 | 17 | 24 | 30 | 24 | 17 | 17 | 10 | 0 | 0 | 0 |
| 747 | Residence | Non-Participating | 340582.38 | 4757714.86 | 17 | 24 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 748 | Residence | Non-Participating | 340599.16 | 4757731.61 | 17 | 24 | 30 | 24 | 18 | 17 | 10 | 0 | 0 | 0 |
| 749 | Residence | Non-Participating | 340414.94 | 4757837.76 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 750 | Residence | Non-Participating | 340540.49 | 4757864.59 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 751 | Residence | Non-Participating | 340512.81 | 4757846.83 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 752 | Residence | Non-Participating | 340475.37 | 4757879.87 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 753 | Residence | Non-Participating | 340548.00 | 4757645.56 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 768 | Residence | Non-Participating | 342341.76 | 4757532.57 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 1 | 0 | 0 |
| 769 | Residence | Non-Participating | 342421.20 | 4757565.13 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 1 | 0 | 0 |
| 770 | Residence | Non-Participating | 342405.20 | 4757602.83 | 20 | 20 | 26 | 27 | 22 | 21 | 13 | 0 | 0 | 0 |
| 773 | Residence | Non-Participating | 340838.73 | 4756118.86 | 16 | 16 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 779 | Residence | Non-Participating | 341991.63 | 4753808.58 | 11 | 13 | 18 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 780 | Residence | Non-Participating | 341995.29 | 4753754.84 | 10 | 12 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 781 | Residence | Non-Participating | 341915.36 | 4753696.61 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 783 | Residence | Non-Participating | 343136.45 | 4754230.03 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 795 | Residence | Non-Participating | 346048.12 | 4755138.23 | 6 | 10 | 15 | 16 | 9 | 6 | 0 | 0 | 0 | 0 |
| 797 | Residence | Non-Participating | 347128.91 | 4756626.62 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 803 | Residence | Non-Participating | 346999.39 | 4756624.60 | 4 | 8 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 824 | Residence | Non-Participating | 341834.55 | 4756040.70 | 24 | 23 | 29 | 31 | 25 | 24 | 17 | 7 | 0 | 0 |
| 846 | Residence | Non-Participating | 341816.71 | 4753682.42 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 848 | Residence | Non-Participating | 344521.10 | 4755803.04 | 19 | 25 | 31 | 25 | 19 | 19 | 12 | 0 | 0 | 0 |
| 855 | Residence | Non-Participating | 341824.01 | 4755997.41 | 24 | 23 | 28 | 30 | 25 | 24 | 16 | 6 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **142** | **Residence** | **Non-Participating** | **342716.49** | **4756882.62** | **35** | **38** | **43** | **40** | **33** | **35** | **30** | **23** | **7** | **0** |
| **231** | **Residence** | **Non-Participating** | **347660.99** | **4756880.45** | **2** | **7** | **12** | **13** | **5** | **0** | **0** | **0** | **0** | **0** |

**Table 7-6.1b_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 142 | Residence | Non-Participating | 342716.49 | 4756882.62 | 35 | 38 | 43 | 40 | 33 | 35 | 30 | 23 | 7 | 0 |
| 676 | Residence | Non-Participating | 343130.78 | 4756236.51 | 33 | 36 | 42 | 37 | 31 | 32 | 28 | 19 | 0 | 0 |
| 145 | Residence | Non-Participating | 343136.64 | 4756529.58 | 33 | 36 | 42 | 38 | 31 | 33 | 28 | 20 | 1 | 0 |
| 678 | Residence | Non-Participating | 342725.94 | 4755775.42 | 31 | 35 | 41 | 36 | 30 | 31 | 26 | 17 | 0 | 0 |
| 663 | Residence | Non-Participating | 343078.86 | 4755673.18 | 28 | 32 | 38 | 33 | 27 | 28 | 23 | 13 | 0 | 0 |
| 662 | Residence | Non-Participating | 343081.29 | 4755633.55 | 28 | 32 | 38 | 32 | 27 | 28 | 22 | 12 | 0 | 0 |
| 659 | Residence | Non-Participating | 342999.10 | 4755536.86 | 27 | 32 | 37 | 32 | 26 | 27 | 22 | 11 | 0 | 0 |
| 661 | Residence | Non-Participating | 343103.77 | 4755523.33 | 27 | 31 | 37 | 31 | 26 | 27 | 21 | 10 | 0 | 0 |
| 133 | Residence | Non-Participating | 342741.73 | 4757475.43 | 27 | 31 | 37 | 31 | 26 | 27 | 21 | 10 | 0 | 0 |
| 681 | Residence | Non-Participating | 342015.80 | 4756024.33 | 26 | 25 | 30 | 32 | 27 | 26 | 19 | 10 | 0 | 0 |
| 685 | Residence | Non-Participating | 341976.47 | 4756114.35 | 26 | 25 | 31 | 32 | 27 | 26 | 19 | 10 | 0 | 0 |
| 682 | Residence | Non-Participating | 341971.91 | 4756025.45 | 26 | 24 | 30 | 32 | 26 | 26 | 18 | 9 | 0 | 0 |
| 680 | Residence | Non-Participating | 342347.15 | 4755798.80 | 26 | 25 | 31 | 32 | 27 | 26 | 19 | 10 | 0 | 0 |
| 686 | Residence | Non-Participating | 341925.51 | 4756139.30 | 26 | 24 | 30 | 32 | 27 | 26 | 19 | 9 | 0 | 0 |
| 122 | Residence | Non-Participating | 342155.76 | 4757532.88 | 26 | 30 | 36 | 30 | 25 | 26 | 20 | 8 | 0 | 0 |
| 684 | Residence | Non-Participating | 341895.31 | 4756054.63 | 25 | 24 | 29 | 31 | 26 | 25 | 18 | 8 | 0 | 0 |
| 109 | Residence | Non-Participating | 341951.65 | 4757450.49 | 25 | 30 | 36 | 30 | 25 | 26 | 20 | 8 | 0 | 0 |
| 667 | Residence | Non-Participating | 343072.82 | 4755751.60 | 24 | 23 | 29 | 30 | 25 | 24 | 17 | 6 | 0 | 0 |
| 687 | Residence | Non-Participating | 341842.41 | 4756053.60 | 24 | 23 | 29 | 31 | 25 | 24 | 17 | 7 | 0 | 0 |
| 824 | Residence | Non-Participating | 341834.55 | 4756040.70 | 24 | 23 | 29 | 31 | 25 | 24 | 17 | 7 | 0 | 0 |
| 855 | Residence | Non-Participating | 341824.01 | 4755997.41 | 24 | 23 | 28 | 30 | 25 | 24 | 16 | 6 | 0 | 0 |
| 688 | Residence | Non-Participating | 341811.69 | 4756079.03 | 24 | 23 | 29 | 31 | 25 | 24 | 17 | 7 | 0 | 0 |
| 105 | Residence | Non-Participating | 341814.04 | 4757521.56 | 24 | 29 | 35 | 29 | 24 | 24 | 18 | 6 | 0 | 0 |
| 110 | Residence | Non-Participating | 341934.64 | 4757596.93 | 24 | 29 | 35 | 29 | 24 | 24 | 18 | 6 | 0 | 0 |
| 103 | Residence | Non-Participating | 341698.26 | 4757535.20 | 24 | 29 | 35 | 29 | 23 | 24 | 17 | 4 | 0 | 0 |
| 104 | Residence | Non-Participating | 341741.26 | 4757536.39 | 24 | 29 | 35 | 29 | 23 | 24 | 18 | 5 | 0 | 0 |
| 111 | Residence | Non-Participating | 341939.66 | 4757635.22 | 24 | 29 | 35 | 29 | 23 | 24 | 18 | 5 | 0 | 0 |
| 670 | Residence | Non-Participating | 343235.14 | 4755803.27 | 23 | 22 | 28 | 30 | 24 | 23 | 16 | 5 | 0 | 0 |
| 692 | Residence | Non-Participating | 341713.10 | 4756137.52 | 23 | 22 | 28 | 30 | 24 | 23 | 16 | 5 | 0 | 0 |
| 693 | Residence | Non-Participating | 341687.22 | 4756159.39 | 23 | 22 | 28 | 30 | 24 | 23 | 16 | 5 | 0 | 0 |
| 102 | Residence | Non-Participating | 341656.56 | 4757542.28 | 23 | 29 | 34 | 28 | 23 | 24 | 17 | 4 | 0 | 0 |
| 671 | Residence | Non-Participating | 343397.28 | 4755811.31 | 22 | 21 | 27 | 29 | 23 | 22 | 14 | 3 | 0 | 0 |
| 123 | Residence | Non-Participating | 342399.46 | 4757481.02 | 22 | 21 | 27 | 28 | 23 | 22 | 14 | 3 | 0 | 0 |
| 124 | Residence | Non-Participating | 342489.13 | 4757480.35 | 22 | 21 | 27 | 28 | 23 | 22 | 14 | 3 | 0 | 0 |
| 115 | Residence | Non-Participating | 341933.81 | 4757841.90 | 22 | 28 | 34 | 28 | 22 | 23 | 16 | 2 | 0 | 0 |
| 116 | Residence | Non-Participating | 341927.88 | 4757876.97 | 22 | 28 | 34 | 28 | 22 | 22 | 16 | 2 | 0 | 0 |
| 118 | Residence | Non-Participating | 341933.48 | 4757946.20 | 22 | 27 | 33 | 27 | 21 | 22 | 15 | 1 | 0 | 0 |
| 645 | Residence | Non-Participating | 342719.56 | 4754729.91 | 21 | 27 | 33 | 27 | 21 | 21 | 15 | 0 | 0 | 0 |
| 672 | Residence | Non-Participating | 343453.13 | 4755811.37 | 21 | 21 | 26 | 28 | 22 | 21 | 14 | 2 | 0 | 0 |
| 128 | Residence | Non-Participating | 342473.70 | 4757539.67 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 2 | 0 | 0 |
| 129 | Residence | Non-Participating | 342513.46 | 4757532.58 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 2 | 0 | 0 |
| 768 | Residence | Non-Participating | 342341.76 | 4757532.57 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 1 | 0 | 0 |
| 769 | Residence | Non-Participating | 342421.20 | 4757565.13 | 21 | 20 | 26 | 28 | 22 | 21 | 13 | 1 | 0 | 0 |
| 631 | Residence | Non-Participating | 342526.59 | 4754563.36 | 20 | 26 | 32 | 26 | 20 | 20 | 13 | 0 | 0 | 0 |
| 633 | Residence | Non-Participating | 342706.02 | 4754578.47 | 20 | 26 | 32 | 26 | 20 | 20 | 13 | 0 | 0 | 0 |
| 632 | Residence | Non-Participating | 342562.68 | 4754561.77 | 20 | 26 | 32 | 26 | 20 | 20 | 13 | 0 | 0 | 0 |

**Table 7-6.1b_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 634 | Residence | Non-Participating | 342749.65 | 4754593.83 | 20 | 26 | 32 | 26 | 20 | 21 | 13 | 0 | 0 | 0 |
| 770 | Residence | Non-Participating | 342405.20 | 4757602.83 | 20 | 20 | 26 | 27 | 22 | 21 | 13 | 0 | 0 | 0 |
| 848 | Residence | Non-Participating | 344521.10 | 4755803.04 | 19 | 25 | 31 | 25 | 19 | 19 | 12 | 0 | 0 | 0 |
| 658 | Residence | Non-Participating | 343029.48 | 4755184.14 | 19 | 19 | 25 | 26 | 20 | 19 | 11 | 0 | 0 | 0 |
| 296 | Residence | Non-Participating | 344759.06 | 4755822.48 | 18 | 25 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 653 | Residence | Non-Participating | 343141.72 | 4755054.71 | 18 | 18 | 24 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 694 | Residence | Non-Participating | 341147.15 | 4756479.88 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 112 | Residence | Non-Participating | 341887.26 | 4757697.81 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 113 | Residence | Non-Participating | 341918.41 | 4757754.52 | 18 | 18 | 24 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 114 | Residence | Non-Participating | 341855.91 | 4757767.16 | 18 | 18 | 24 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 624 | Residence | Non-Participating | 342047.98 | 4754920.00 | 17 | 17 | 23 | 25 | 19 | 17 | 8 | 0 | 0 | 0 |
| 287 | Residence | Non-Participating | 344824.92 | 4755875.80 | 17 | 24 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 650 | Residence | Non-Participating | 343116.86 | 4754885.43 | 17 | 17 | 23 | 24 | 18 | 17 | 8 | 0 | 0 | 0 |
| 521 | Residence | Non-Participating | 343707.60 | 4754439.03 | 17 | 25 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 695 | Residence | Non-Participating | 340919.85 | 4756438.80 | 17 | 17 | 23 | 24 | 18 | 17 | 8 | 0 | 0 | 0 |
| 98 | Residence | Non-Participating | 341366.49 | 4757368.40 | 17 | 18 | 23 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 747 | Residence | Non-Participating | 340582.38 | 4757714.86 | 17 | 24 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 748 | Residence | Non-Participating | 340599.16 | 4757731.61 | 17 | 24 | 30 | 24 | 18 | 17 | 10 | 0 | 0 | 0 |
| 74 | Residence | Non-Participating | 340633.05 | 4757715.60 | 17 | 24 | 30 | 24 | 18 | 18 | 10 | 0 | 0 | 0 |
| 744 | Residence | Non-Participating | 340561.92 | 4757727.17 | 17 | 24 | 30 | 24 | 17 | 17 | 9 | 0 | 0 | 0 |
| 746 | Residence | Non-Participating | 340581.48 | 4757730.88 | 17 | 24 | 30 | 24 | 17 | 17 | 10 | 0 | 0 | 0 |
| 297 | Residence | Non-Participating | 344880.76 | 4755539.53 | 16 | 24 | 30 | 23 | 17 | 17 | 9 | 0 | 0 | 0 |
| 300 | Residence | Non-Participating | 344887.97 | 4755337.56 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 301 | Residence | Non-Participating | 344832.24 | 4755261.10 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 646 | Residence | Non-Participating | 342887.16 | 4754714.91 | 16 | 16 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 731 | Residence | Non-Participating | 341563.21 | 4755064.92 | 16 | 17 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 647 | Residence | Non-Participating | 342939.94 | 4754694.55 | 16 | 16 | 22 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 540 | Residence | Non-Participating | 343009.26 | 4754702.30 | 16 | 16 | 22 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 773 | Residence | Non-Participating | 340838.73 | 4756118.86 | 16 | 16 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 97 | Residence | Non-Participating | 341120.31 | 4757471.02 | 16 | 16 | 22 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 17 | Residence | Non-Participating | 340431.69 | 4757800.09 | 16 | 24 | 29 | 23 | 17 | 17 | 8 | 0 | 0 | 0 |
| 18 | Residence | Non-Participating | 340434.52 | 4757786.99 | 16 | 24 | 30 | 23 | 17 | 17 | 8 | 0 | 0 | 0 |
| 86 | Residence | Non-Participating | 340445.67 | 4757849.44 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 87 | Residence | Non-Participating | 340446.33 | 4757833.76 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 11 | Residence | Non-Participating | 340415.74 | 4757822.22 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 12 | Residence | Non-Participating | 340426.38 | 4757814.28 | 16 | 24 | 29 | 23 | 17 | 17 | 8 | 0 | 0 | 0 |
| 749 | Residence | Non-Participating | 340414.94 | 4757837.76 | 16 | 24 | 29 | 23 | 17 | 16 | 8 | 0 | 0 | 0 |
| 629 | Residence | Non-Participating | 342469.51 | 4754577.07 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 630 | Residence | Non-Participating | 342529.76 | 4754611.60 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 636 | Residence | Non-Participating | 342644.76 | 4754516.63 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 306 | Residence | Non-Participating | 344854.42 | 4754809.39 | 15 | 23 | 29 | 22 | 16 | 15 | 6 | 0 | 0 | 0 |
| 537 | Residence | Non-Participating | 343071.06 | 4754675.93 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 538 | Residence | Non-Participating | 343074.43 | 4754703.45 | 15 | 16 | 22 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 539 | Residence | Non-Participating | 343012.65 | 4754629.48 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 648 | Residence | Non-Participating | 342891.40 | 4754571.80 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 649 | Residence | Non-Participating | 342952.70 | 4754559.09 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |

**Table 7-6.1b_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 536 | Residence | Non-Participating | 343071.82 | 4754640.73 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 535 | Residence | Non-Participating | 343084.09 | 4754610.54 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 541 | Residence | Non-Participating | 343013.80 | 4754539.11 | 15 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 534 | Residence | Non-Participating | 343124.87 | 4754604.54 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 528 | Residence | Non-Participating | 343215.99 | 4754594.74 | 15 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 703 | Residence | Non-Participating | 340857.19 | 4755782.40 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 708 | Residence | Non-Participating | 340848.28 | 4755660.87 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 702 | Residence | Non-Participating | 340836.29 | 4755851.22 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 712 | Residence | Non-Participating | 340853.24 | 4755586.80 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 713 | Residence | Non-Participating | 340895.37 | 4755476.50 | 15 | 16 | 21 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 710 | Residence | Non-Participating | 340737.38 | 4755756.28 | 15 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 517 | Residence | Non-Participating | 344099.18 | 4754172.97 | 15 | 23 | 29 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 512 | Residence | Non-Participating | 344404.92 | 4754273.26 | 15 | 23 | 28 | 22 | 15 | 15 | 6 | 0 | 0 | 0 |
| 513 | Residence | Non-Participating | 344387.12 | 4754211.77 | 15 | 23 | 28 | 22 | 15 | 15 | 6 | 0 | 0 | 0 |
| 727 | Residence | Non-Participating | 341021.28 | 4755411.72 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 700 | Residence | Non-Participating | 340833.15 | 4755929.69 | 15 | 16 | 22 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 699 | Residence | Non-Participating | 340777.11 | 4756057.04 | 15 | 16 | 22 | 23 | 17 | 16 | 6 | 0 | 0 | 0 |
| 146 | Residence | Non-Participating | 344642.32 | 4758207.04 | 15 | 23 | 29 | 22 | 16 | 15 | 7 | 0 | 0 | 0 |
| 622 | Residence | Non-Participating | 342014.30 | 4754532.55 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 623 | Residence | Non-Participating | 341943.75 | 4754530.12 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 628 | Residence | Non-Participating | 342773.26 | 4754332.07 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 542 | Residence | Non-Participating | 343016.27 | 4754468.21 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 307 | Residence | Non-Participating | 344729.29 | 4754432.85 | 14 | 22 | 28 | 22 | 15 | 14 | 5 | 0 | 0 | 0 |
| 527 | Residence | Non-Participating | 343244.44 | 4754590.40 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 526 | Residence | Non-Participating | 343277.64 | 4754585.97 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 525 | Residence | Non-Participating | 343338.42 | 4754581.03 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 520 | Residence | Non-Participating | 343443.38 | 4754574.30 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 543 | Residence | Non-Participating | 343016.09 | 4754408.30 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 709 | Residence | Non-Participating | 340660.75 | 4755614.99 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 514 | Residence | Non-Participating | 344471.29 | 4754186.89 | 14 | 22 | 28 | 22 | 15 | 14 | 5 | 0 | 0 | 0 |
| 725 | Residence | Non-Participating | 340947.58 | 4755303.31 | 14 | 15 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 717 | Residence | Non-Participating | 340835.69 | 4755406.83 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 726 | Residence | Non-Participating | 340845.43 | 4755264.20 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 718 | Residence | Non-Participating | 340799.51 | 4755400.70 | 14 | 15 | 21 | 22 | 16 | 14 | 5 | 0 | 0 | 0 |
| 149 | Residence | Non-Participating | 344792.46 | 4758401.18 | 14 | 22 | 28 | 22 | 15 | 14 | 5 | 0 | 0 | 0 |
| 286 | Residence | Non-Participating | 344804.05 | 4755978.89 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 545 | Residence | Non-Participating | 343027.72 | 4754318.68 | 13 | 14 | 20 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 546 | Residence | Non-Participating | 343034.93 | 4754222.02 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 783 | Residence | Non-Participating | 343136.45 | 4754230.03 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 269 | Residence | Non-Participating | 344837.52 | 4756846.37 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 263 | Residence | Non-Participating | 344787.54 | 4757053.79 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 544 | Residence | Non-Participating | 343097.49 | 4754362.54 | 13 | 15 | 20 | 22 | 15 | 14 | 4 | 0 | 0 | 0 |
| 519 | Residence | Non-Participating | 343457.04 | 4754466.09 | 13 | 15 | 20 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 518 | Residence | Non-Participating | 343535.74 | 4754428.47 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 714 | Residence | Non-Participating | 340657.34 | 4755479.54 | 13 | 15 | 20 | 22 | 15 | 14 | 4 | 0 | 0 | 0 |
| 95 | Residence | Non-Participating | 340560.50 | 4757390.93 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |

**Table 7-6.1b_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 96 | Residence | Non-Participating | 340552.99 | 4757339.53 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 342 | Residence | Non-Participating | 345122.61 | 4754187.44 | 12 | 21 | 27 | 20 | 13 | 12 | 3 | 0 | 0 | 0 |
| 617 | Residence | Non-Participating | 342040.12 | 4753992.66 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 285 | Residence | Non-Participating | 344915.09 | 4756234.51 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 278 | Residence | Non-Participating | 344920.44 | 4756448.96 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 273 | Residence | Non-Participating | 344917.15 | 4756594.47 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 270 | Residence | Non-Participating | 344896.85 | 4756814.53 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 551 | Residence | Non-Participating | 343162.81 | 4754144.48 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 552 | Residence | Non-Participating | 343149.95 | 4754092.41 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 268 | Residence | Non-Participating | 344758.61 | 4757174.89 | 12 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 258 | Residence | Non-Participating | 344740.44 | 4757226.66 | 12 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 719 | Residence | Non-Participating | 340483.07 | 4755418.55 | 12 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 721 | Residence | Non-Participating | 340319.93 | 4755433.81 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 48 | Residence | Non-Participating | 340489.24 | 4757629.76 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 49 | Residence | Non-Participating | 340504.05 | 4757634.71 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 50 | Residence | Non-Participating | 340520.00 | 4757636.78 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 51 | Residence | Non-Participating | 340532.64 | 4757639.87 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 54 | Residence | Non-Participating | 340494.12 | 4757661.72 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 55 | Residence | Non-Participating | 340507.19 | 4757675.24 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 56 | Residence | Non-Participating | 340516.67 | 4757661.53 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 57 | Residence | Non-Participating | 340526.30 | 4757681.53 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 58 | Residence | Non-Participating | 340535.51 | 4757666.16 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 59 | Residence | Non-Participating | 340543.72 | 4757686.18 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 60 | Residence | Non-Participating | 340552.67 | 4757670.35 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 61 | Residence | Non-Participating | 340563.24 | 4757689.61 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 62 | Residence | Non-Participating | 340570.13 | 4757677.14 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 63 | Residence | Non-Participating | 340579.71 | 4757694.29 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 66 | Residence | Non-Participating | 340507.38 | 4757698.02 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 67 | Residence | Non-Participating | 340523.89 | 4757717.41 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 68 | Residence | Non-Participating | 340543.46 | 4757723.22 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 69 | Residence | Non-Participating | 340542.91 | 4757706.37 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 71 | Residence | Non-Participating | 340599.54 | 4757751.59 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 72 | Residence | Non-Participating | 340628.17 | 4757746.55 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 73 | Residence | Non-Participating | 340635.45 | 4757729.55 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 75 | Residence | Non-Participating | 340634.72 | 4757766.84 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 76 | Residence | Non-Participating | 340631.72 | 4757783.98 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 77 | Residence | Non-Participating | 340624.23 | 4757802.16 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 78 | Residence | Non-Participating | 340599.68 | 4757783.87 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 79 | Residence | Non-Participating | 340582.48 | 4757778.03 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 255 | Residence | Non-Participating | 344718.78 | 4757614.35 | 12 | 13 | 19 | 20 | 14 | 12 | 2 | 0 | 0 | 0 |
| 736 | Residence | Non-Participating | 340601.22 | 4757800.76 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 737 | Residence | Non-Participating | 340641.07 | 4757822.97 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 738 | Residence | Non-Participating | 340655.45 | 4757824.51 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 741 | Residence | Non-Participating | 340592.35 | 4757810.89 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 745 | Residence | Non-Participating | 340565.12 | 4757712.61 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 753 | Residence | Non-Participating | 340548.00 | 4757645.56 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |

**Table 7-6.1b_Revised: Unmitigated Substation Only Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating Receptors]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 18N (meters) | | Project Only Maximum 8-hr Leq [dBA] | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 46 | Residence | Non-Participating | 340430.67 | 4757620.19 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 47 | Residence | Non-Participating | 340451.14 | 4757622.89 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 53 | Residence | Non-Participating | 340449.09 | 4757653.07 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 65 | Residence | Non-Participating | 340498.34 | 4757709.35 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 80 | Residence | Non-Participating | 340555.61 | 4757775.68 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 739 | Residence | Non-Participating | 340564.51 | 4757808.55 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 740 | Residence | Non-Participating | 340572.27 | 4757811.57 | 12 | 14 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 45 | Residence | Non-Participating | 340396.72 | 4757619.64 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 52 | Residence | Non-Participating | 340439.48 | 4757659.66 | 12 | 13 | 19 | 20 | 14 | 12 | 2 | 0 | 0 | 0 |
| 81 | Residence | Non-Participating | 340547.91 | 4757795.53 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 20 | Residence | Non-Participating | 340440.05 | 4757739.88 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 21 | Residence | Non-Participating | 340426.49 | 4757726.13 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 37 | Residence | Non-Participating | 340389.16 | 4757646.84 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 38 | Residence | Non-Participating | 340401.47 | 4757658.00 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 39 | Residence | Non-Participating | 340419.72 | 4757656.24 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 40 | Residence | Non-Participating | 340436.18 | 4757685.60 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 41 | Residence | Non-Participating | 340416.88 | 4757682.16 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 64 | Residence | Non-Participating | 340452.34 | 4757699.53 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 70 | Residence | Non-Participating | 340458.72 | 4757722.91 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 82 | Residence | Non-Participating | 340539.13 | 4757808.04 | 12 | 13 | 19 | 20 | 14 | 12 | 2 | 0 | 0 | 0 |
| 83 | Residence | Non-Participating | 340561.25 | 4757823.29 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 84 | Residence | Non-Participating | 340568.27 | 4757842.86 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 92 | Residence | Non-Participating | 340540.23 | 4757832.03 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 93 | Residence | Non-Participating | 340510.49 | 4757825.92 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 94 | Residence | Non-Participating | 340498.81 | 4757836.99 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 735 | Residence | Non-Participating | 340587.65 | 4757842.10 | 12 | 13 | 19 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 742 | Residence | Non-Participating | 340548.18 | 4757847.68 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 743 | Residence | Non-Participating | 340531.28 | 4757872.77 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 750 | Residence | Non-Participating | 340540.49 | 4757864.59 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 751 | Residence | Non-Participating | 340512.81 | 4757846.83 | 12 | 13 | 19 | 20 | 14 | 12 | 1 | 0 | 0 | 0 |
| 587 | Residence | Non-Participating | 342310.40 | 4753788.46 | 11 | 13 | 18 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 779 | Residence | Non-Participating | 341991.63 | 4753808.58 | 11 | 13 | 18 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 554 | Residence | Non-Participating | 343236.24 | 4753927.68 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 19 | Residence | Non-Participating | 340435.24 | 4757774.39 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1 | Residence | Non-Participating | 340426.95 | 4757902.14 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 2 | Residence | Non-Participating | 340415.40 | 4757879.73 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 4 | Residence | Non-Participating | 340417.28 | 4757863.52 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 7 | Residence | Non-Participating | 340360.48 | 4757816.12 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 8 | Residence | Non-Participating | 340361.08 | 4757799.40 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 9 | Residence | Non-Participating | 340375.63 | 4757805.66 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 10 | Residence | Non-Participating | 340392.94 | 4757813.23 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 13 | Residence | Non-Participating | 340356.52 | 4757766.62 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 14 | Residence | Non-Participating | 340381.67 | 4757778.49 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 15 | Residence | Non-Participating | 340373.01 | 4757760.13 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 16 | Residence | Non-Participating | 340392.58 | 4757765.46 | 11 | 13 | 19 | 20 | 13 | 11 | 1 | 0 | 0 | 0 |
| 22 | Residence | Non-Participating | 340417.11 | 4757719.43 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |