CleanAir

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Thermal Testing Expertise from CleanAir® PERFORMANCE GROUP

# OTTER TAIL POWER COMPANY FAR-FIELD NOISE EMISSIONS TEST REPORT

Otter Tail Astoria Station

Astoria, South Dakota

Otter Tail Power Company

48450 144th Street

Big Stone City, SD 57216

CleanAir Project No. 14203

Sargent & Lundy No. A12715

Otter Tail No. A-8805

Revision 1

April 19, 2021

*Submitted by:*

David Wheeler, PE

*Reviewed by:*

Jacob Ortman

# TEST PLAN REVISION HISTORY

| Version | Revision | Date | Pages | Comments |
|---|---|---|---|---|
| Final | 0 | April 19, 2021 | All | Original version of document. |
| Final | 1 | April 19, 2021 | 1,7 | Added explanation of the effect of wind speed |
| | | | 7 | Corrected typo in Table 5-1 |

# PROJECT CONTACT INFORMATION

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# 1. EXECUTIVE SUMMARY

Otter Tail Power Company (Otter Tail) contracted with CleanAir Engineering (CleanAir) to write a site-specific test plan, execute testing, and calculate results for far-field noise emissions testing of a Mitsubishi Hitachi Power Systems (MHPS) 501GAC gas turbine at the Otter Tail Astoria Power Station located in Astoria, South Dakota. This document describes the process to execute the far-field noise testing.

The objective of the testing was to ensure that far-field noise from Astoria Station meets the limits set forth by the South Dakota Public Utilities Commission. The far field noise testing was conducted by CleanAir's technical leader David Wheeler under the guidelines set forth in the site-specific test plan.

This test report summarizes the test results and documents the testing activities, the plant operating conditions under which the tests were performed, specifies the instrumentation used for the tests, and the evaluation of the test results. The sound pressure levels documented in the report were measured with the plant operating at average load of 235 MW, which is less than base load at the ambient condition prevailing at the time of the testing.

The results of the far field testing are summarized in Table 1-1.

**Table 1-1: Far Field Noise Summary**

| | Units | | |
|---|---|---|---|
| Site | | ML1 | ML2 |
| Date | | 4/10/2021 | 4/10/2021 |
| Test Period | | 07:50-09:49 | 10:13-12:12 |
| Average A weighted sound pressure level | dBA | 41.99 | 43.09 |
| Maximum C weighted sound pressure level | dBC | 64.72 | 63.54 |
| Wind speed | mph | 7 | 11 |
| Date | | 4/9/2021 | 4/8/2021 |
| Test Period | | 00:19-02:18 | 22:00-23:59 |
| Average A weighted sound pressure level | dBA | 37.00 | 29.74 |
| Maximum C weighted sound pressure level | dBC | 61.26 | 58.34 |
| Wind speed | mph | 7 | 7 |
| Day/night average sound pressure level* | dBA | 44.58 | 42.11 |
| Permitted sound pressure level | dBA | 55 | 55 |
| Permit compliance | | Pass | Pass |
| Maximum C weighted sound pressure level | dBC | 64.72 | 63.54 |
| Permitted sound pressure level | dBC | 65 | 65 |
| Permit compliance | | Pass | Pass |

* including 10 dB penalty for night sound level

ANSI B133.8 specifies that measurements be conducted when wind speeds are less than 7 mph. During three of the test periods, the measured wind speed was 7 mph, while the wind speed for the day measurement at ML2 was 11 mph. Wind speeds of greater than 7 mph constitute a positive bias (higher than the true value) because of the wind on the microphone. The microphone used by CleanAir in these measurements was covered by a wind shield which minimizes the positive bias.

CleanAir performance group personnel routinely provide noise testing services for power plant components. We have conducted dozens of tests at facilities both in the US and Internationally. We work with our clients to develop test programs and evaluations to meet the specific objectives of each project. All noise test programs developed by CleanAir are informed by the guidance of ANSI S1,13, ASME PTC 36 and ANSI B133.8. Additional information about CleanAir's noise testing capabilities is included in Appendix C.

*End of Section*

# 2. TEST OVERVIEW

## Scope of Work

Otter Tail Power Company (Otter Tail) contracted with CleanAir Engineering (CleanAir) to write a site-specific test plan, execute testing, and calculate results for far-field noise emissions testing at the Otter Tail Astoria Power Station located in Astoria, South Dakota. This document summarizes the results of the far-field noise testing.

The objective of the testing was to ensure that far-field noise from Astoria Station meets the limits set forth by the South Dakota Public Utilities Commission. The far field noise testing was conducted by CleanAir's technical leader David Wheeler under the guidelines set forth in the site-specific test plan.

## Plant Description

The Otter Tail Astoria Station is a 245-megawatt simple cycle facility which consists of one MHPS 501GAC gas turbine generator and supporting equipment which is fired solely on natural gas. The gas turbine is equipped with an evaporative cooler to increase power output when ambient conditions allow.

## Test Boundaries

Far-field testing consisted of measurements at two points, as shown in Exhibit 13-3 in Appendix A:

- ML1, approximately 3800 feet southwest of the facility power block.
- ML2, approximately 6000 feet east-southeast of the facility power block.

## Permit Requirements

Table 2-1 lists the permitted sound emissions levels according to South Dakota Public Utilities Commission Stipulation EL17-042, signed July 12, 2018. All noise test programs developed by CleanAir are informed by the guidance of ANSI S1.13, ASME PTC 36 and ANSI B133.8.

**Table 2-1: Noise Emissions Requirements**

| Noise Requirement | Requirement Value |
|---|---|
| Day-Night Average (Ldn) | sound level of 55 dBA, which includes a nighttime penalty of 10 decibels |
| Maximum (Lmax) | C-weighted sound level of 65 dBC applicable at all times |

# Test Schedule

The daily schedule of events for the testing is shown in table 2-3.

**Table 2-3: Schedule of Activities**

| Test Day | Time | List of Activities |
|---|---|---|
| 4/7/2021 | 22:00-23:59 | Test at ML1, Unit at base load |
| 4/8/2021 | 00:23-02:23 | Test at ML2, Unit at base load |
| 4/8/2021 | 22:00-23:59 | Test at ML2, Unit at 235 MW |
| 4/9/2021 | 00:19-02:18 | Test at ML1, Unit at 235 MW |
| 04/10/2021 | 07:50-09:49 | Test at ML1, Unit at 235 MW |
| 04/10/2021 | 10:13-12:12 | Test at ML2, Unit at 235 MW |

After the testing at base load, it was apparent the unit would exceed it far field noise emission limit at base load due to high vibration in the exhaust duct and stack. This vibration was greatly reduced when the power output was reduced to 235 MW. The remainder of the far field tests were conducted at a gross power output of 235 MW.

# Test Conditions

For the operating sound level measurements documented in this report, the unit was operated at a gross power output of 235 MW with all equipment in a normal operating configuration.

Testing was conducted under fair weather conditions without any precipitation occurring and no standing water or snow present on the ground.

Far-field measurements were recorded with the sound meter mounted on a tripod at an elevation of five feet above grade level at the two designated measurement locations for two hours. Winds were calm at the measurement locations at the time of the tests.

A test log was maintained during the test to record any occurrences affecting the test, the time of the occurrences, and the observed effect. These occurrences included nearby vehicular traffic, cattle bellowing, birds chirping, and farm machinery activity. When noted in the test log, emissions from nearby activities were purged from the test data. Both sites are near active roadway subject to nearly constant traffic in during daytime measurements. Daytime readings were unavoidably affected by such traffic.

*End of Section*

# 3. METHODOLOGY

## Test Instruments and Calibration

The temporary test instrumentation supplied by CleanAir for the testing has calibrations traceable to the National Institute of Standards and Technology (NIST), nationally recognized standards, or physical constants. The calibration records for the performance instruments are provided in Appendix D.

A summary of the test instruments that were used for the noise emissions tests are found in Table 3-1.

**Table 3-1: Test Instrumentation**

| Parameter | Instrument | Supplier |
|---|---|---|
| Ambient Air Temperature | One RTD | CleanAir |
| Ambient Wet Bulb Temperature | One RTD installed in a mechanically aspirated psychrometer | CleanAir |
| Barometric Pressure | One hand-held barometer | CleanAir |
| Wind Speed | One Davis wind station | CleanAir |
| Sound Pressure Level | One B&K 2250L Sound Level Analyzer | CleanAir |

Temperature measurements were made with precision RTDs with a calibrated accuracy of 0.1°F. Ambient dry bulb and wet bulb temperatures were measured with a precision RTD placed in a mechanically aspirated psychrometer mounted on a tripod such that it is five feet above grade level. The tripod was placed where it was not influenced by any operating plant equipment.

Wind speed was measured with an RM Young wind speed station mounted in an unobstructed location near the ambient temperature instrumentation. The wind speed station was calibrated within one year of the test date and has a calibrated accuracy of 1% of reading.

Sound pressure levels were recorded with a B&K 2250L sound level analyzer. The sound analyzer was calibrated within one year of the test date and underwent a field calibration with a calibrated field calibrator before and after each measurement sequence. The sound level analyzer meets or exceeds all the requirements for an ANSI Type I sound meter. The sound level meter was equipped with a random incidence microphone. Readings were recorded with the meter mounted on a tripod with no obstructions between the meter and sound source and free from the influence of reflective surfaces.

Due to the steady sound pressure levels produced by a power plant running at steady state, the noise will not fluctuate or exhibit “noise events” during the day or night testing, and a full 24 hour test cycle was not necessary to accurately quantify the day-night average. Testing consisted of a two-hour daytime measurement and a two-hour nighttime measurement at each of the two far-field test locations referenced in Exhibit 13-3 in Appendix A. A 10 dB penalty was applied to the nighttime test measurements.

*End of Section*

# 4. CALCULATION METHODOLOGY

## Far-field Sound

Far-field sound was measured at the two designated points, ML1 and ML2, during both daytime and nighttime hours. Sound levels were recorded with an integrating and averaging sound level analyzer for a minimum time period of 5 minutes. The overall A-weighted equivalent sound pressure level ($LA_{eq}$), maximum C-weighted sound level (Lmax), and one-third octave band sound levels were recorded and stored for each measurement period. The day-night average sound level was calculated as:

$$L_{dn} = 10 \log \left( \frac{15 * 10^{0.1 L_d} + 9 * 10^{0.1 (L_n + 10)}}{24} \right)$$

where:

| | | |
|---|---|---|
| $L_{dn}$ | = | the day-night average overall A-weighted sound pressure level (SPL), dBA |
| $L_d$ | = | the recorded daytime overall A-weighted SPL, dBA |
| $L_n$ | = | the recorded nighttime overall A-weighted SPL, dBA |

*End of Section*

# 5. RESULT CALCULATION

## Result Summary

The results of the far field sound testing are summarized in Table 5-1.

**Table 5-1: Far Field Noise Summary**

| | Units | | |
|---|---|---|---|
| Site | | ML1 | ML2 |
| Date | | 4/10/2021 | 4/10/2021 |
| Test Period | | 07:50-09:49 | 10:13-12:12 |
| Average A weighted sound pressure level | dBA | 41.99 | 43.09 |
| Maximum C weighted sound pressure level | dBC | 64.72 | 63.54 |
| Wind speed | mph | 7 | 11 |
| Date | | 4/9/2021 | 4/8/2021 |
| Test Period | | 00:19-02:18 | 22:00-23:59 |
| Average A weighted sound pressure level | dBA | 37.00 | 29.74 |
| Maximum C weighted sound pressure level | dBC | 61.26 | 58.34 |
| Wind speed | mph | 7 | 7 |
| Day/night average sound pressure level* | dBA | 44.58 | 42.11 |
| Permitted sound pressure level | dBA | 55 | 55 |
| Permit compliance | | Pass | Pass |
| Maximum C weighted sound pressure level | dBC | 64.72 | 63.54 |
| Permitted sound pressure level | dBC | 65 | 65 |
| Permit compliance | | Pass | Pass |

* including 10 dB penalty for night sound level

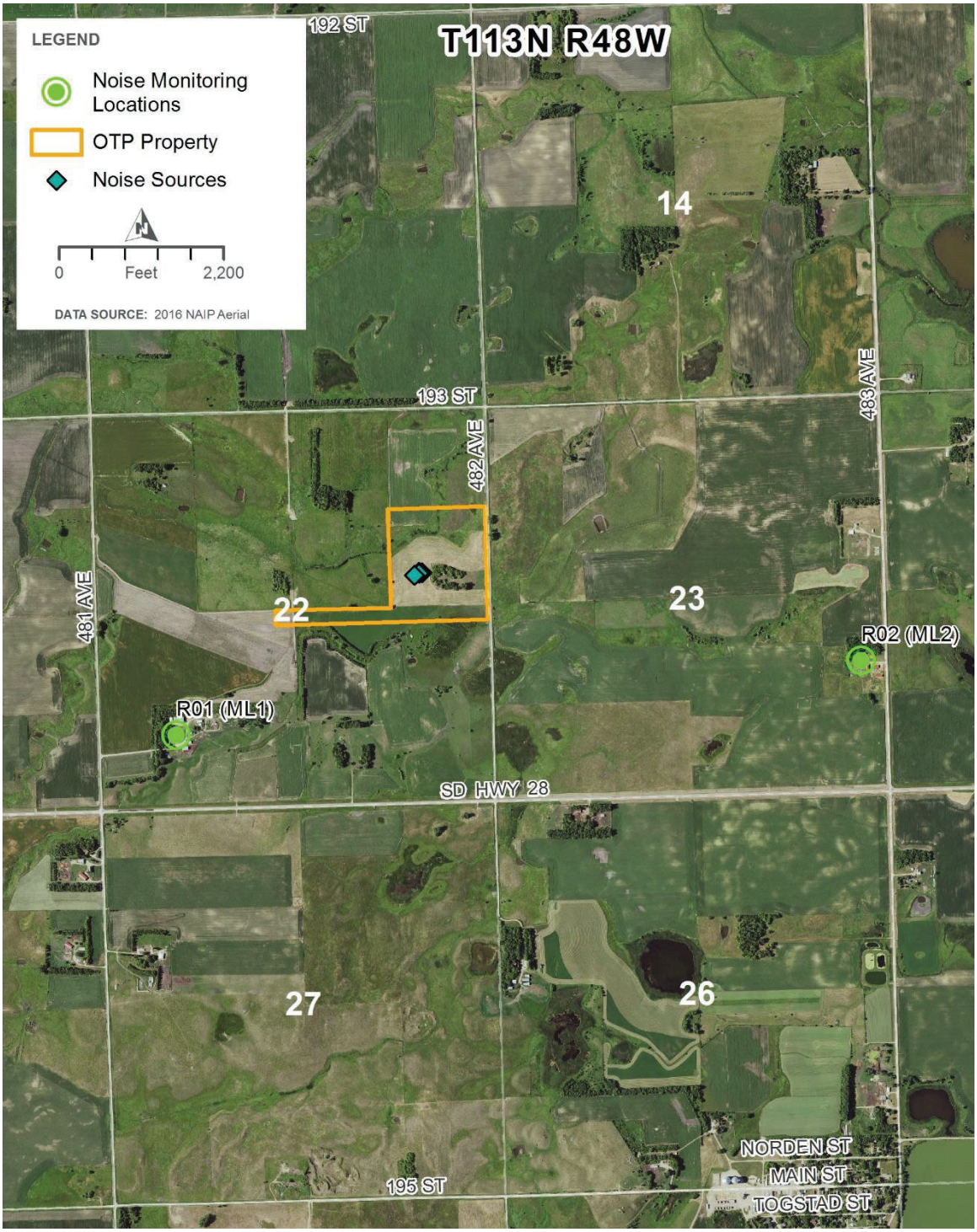
ANSI B133.8 specifies that measurements be conducted when wind speeds are less than 7 mph. During three of the test periods, the measured wind speed was 7 mph, while the wind speed for the day measurement at ML2 was 11 mph. Wind speeds of greater than 7 mph constitute a positive bias (higher than the true value) because of the wind on the microphone. The microphone used by CleanAir in these measurements was covered by a wind shield which minimizes the positive bias.

The daytime noise levels at both locations were significantly higher than those for nighttime measurements. These differences should be attributed to a difference in local activity at the working farms and traffic noise rather than any difference in plant operation.

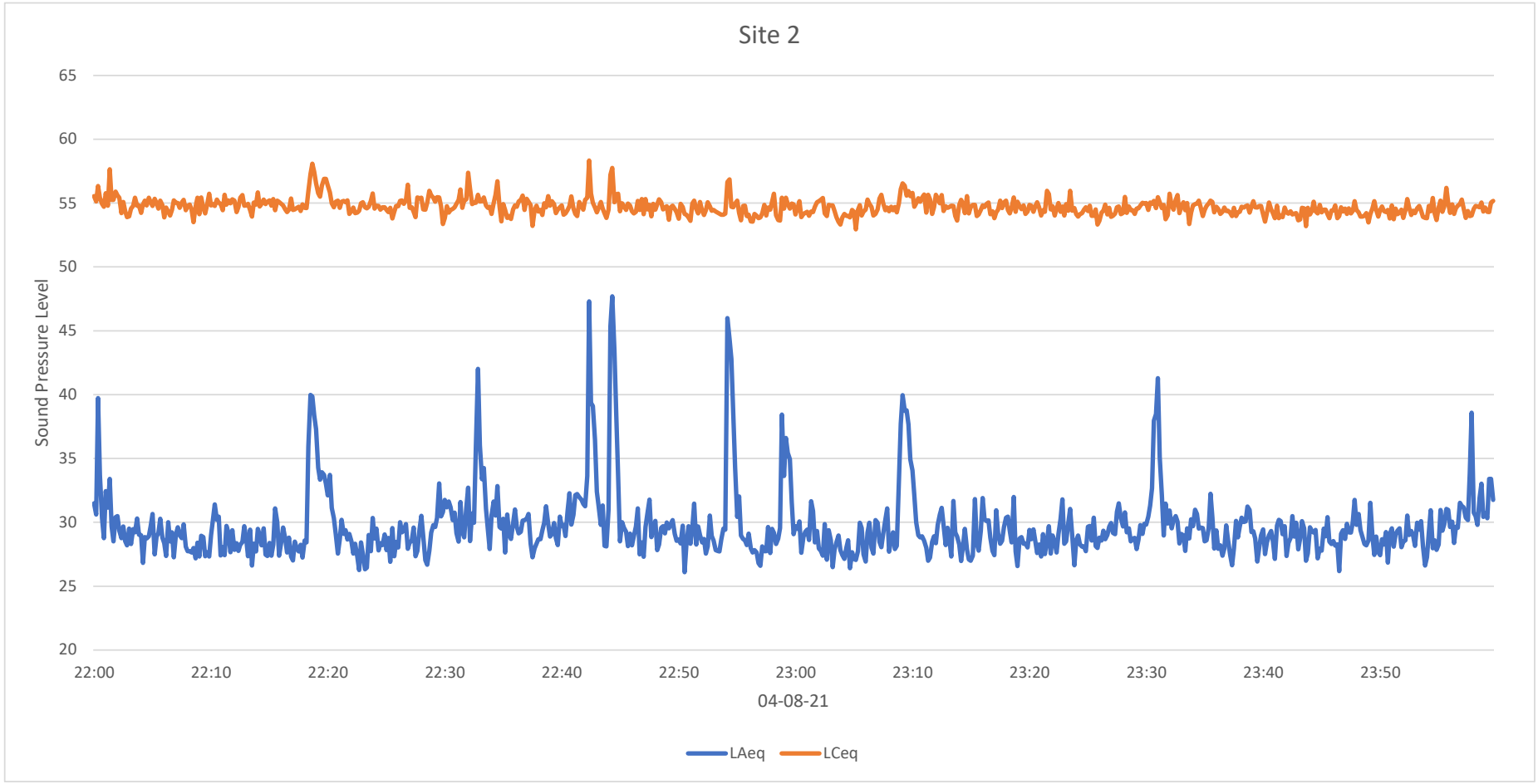
*End of Section*

# APPENDIX A: FAR-FIELD MEASUREMENT LOCATIONS

## Exhibit 13-3. Noise Monitoring Locations



# APPENDIX B: TEST DATA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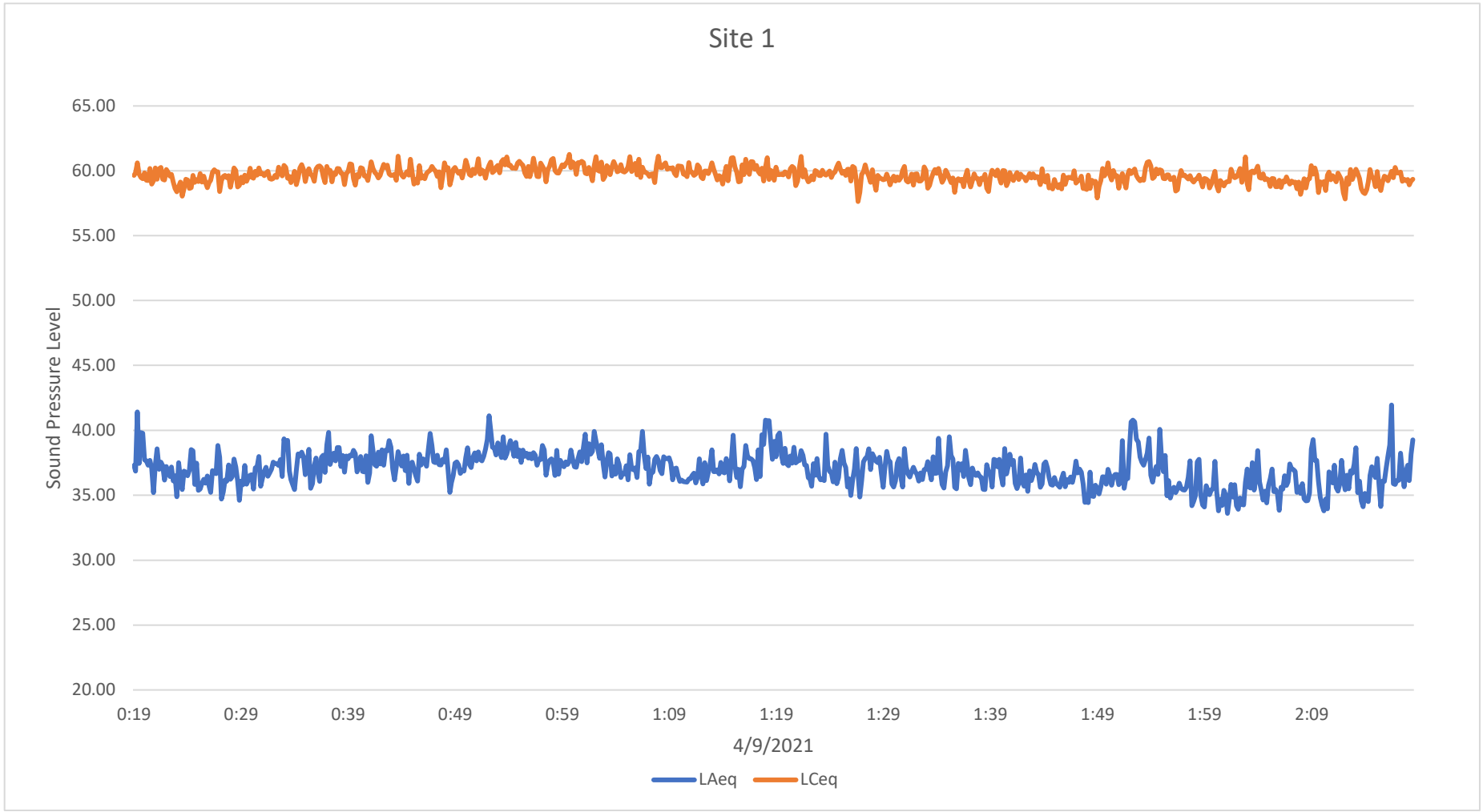
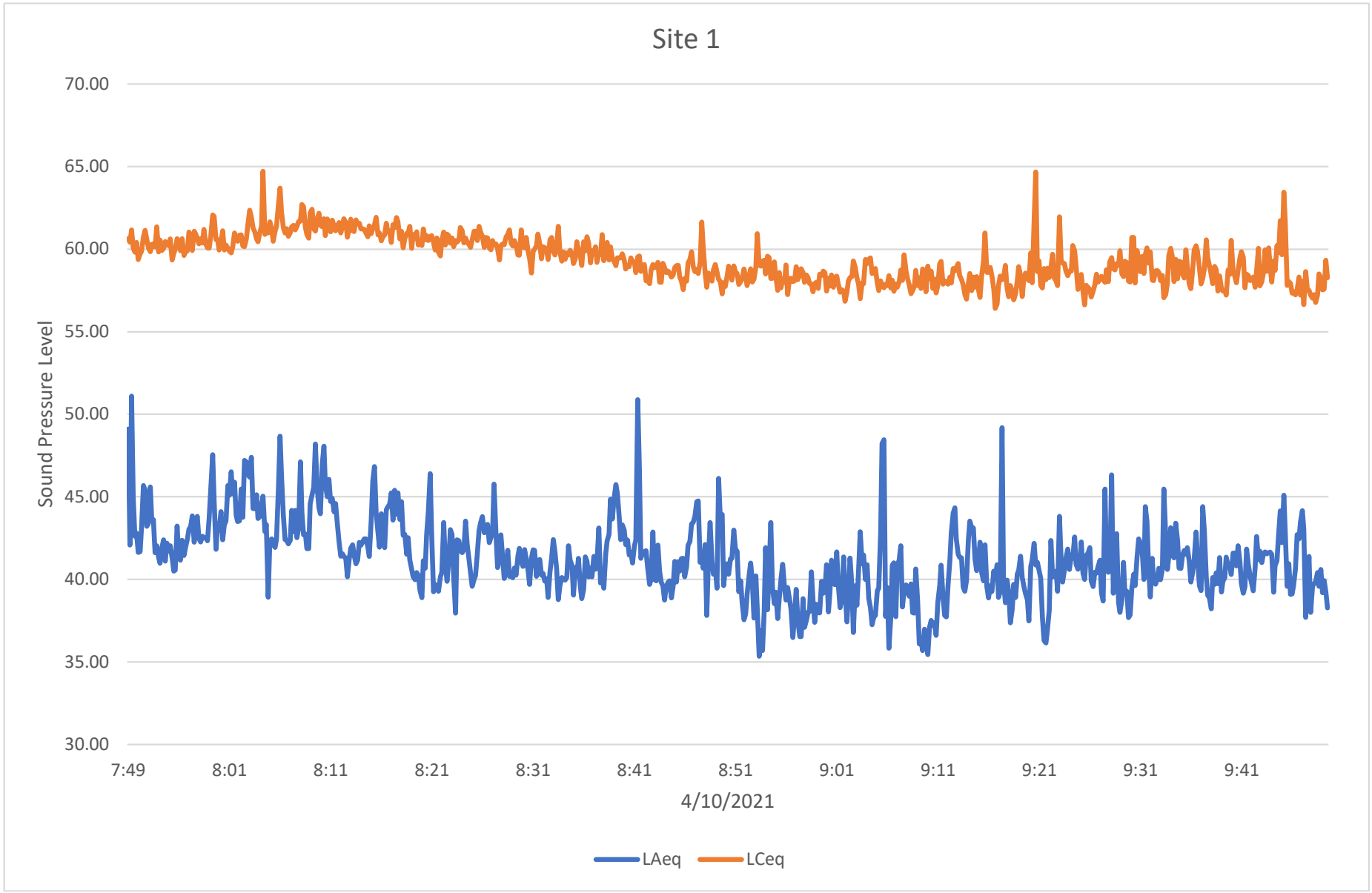
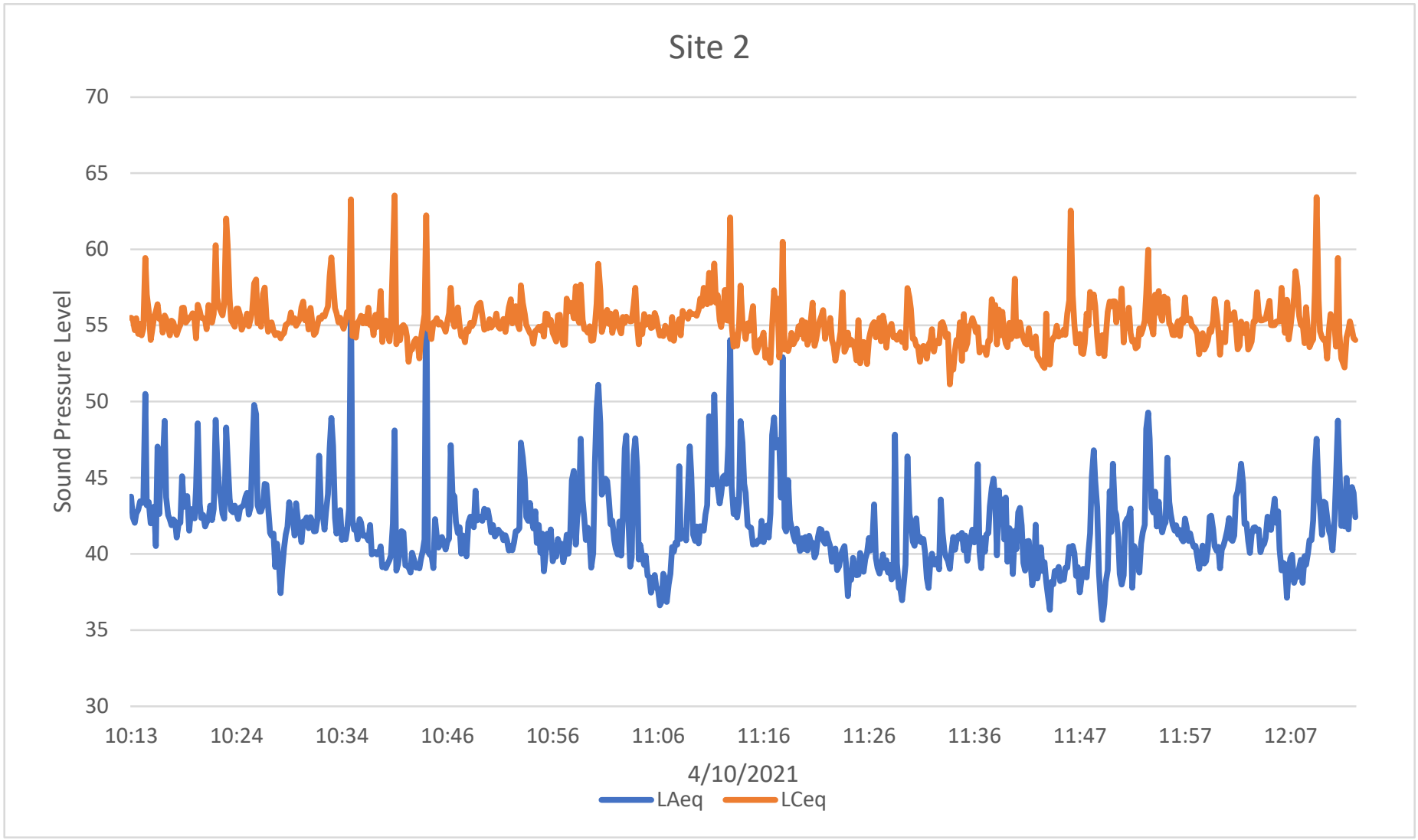
65
60
55
50
45
40
35
30
25
20
Sound Pressure Level
22:00
22:10
22:20
22:30
22:40
22:50
23:00
23:10
23:20
23:30
23:40
23:50
04-08-21
LAeq
LCeq


Site 1
65.00
60.00
55.00
50.00
45.00
40.00
35.00
30.00
25.00
20.00
Sound Pressure Level
0:19
0:29
0:39
0:49
0:59
1:09
1:19
1:29
1:39
1:49
1:59
2:09
4/9/2021
LAeq
LCeq


Site 1
70.00
65.00
60.00
55.00
50.00
45.00
40.00
35.00
30.00
Sound Pressure Level
7:49
8:01
8:11
8:21
8:31
8:41
8:51
9:01
9:11
9:21
9:31
9:41
4/10/2021
LAeq
LCeq


Site 2
70
65
60
55
50
45
40
35
30
Sound Pressure Level
10:13
10:24
10:34
10:46
10:56
11:06
11:16
11:26
11:36
11:47
11:57
12:07
4/10/2021
LAeq
LCeq

| Site 2 | | 4/8/21 | |
|---|---|---|---|
| time | | LAeq | LCeq |
| | 21:59 | 32.16 | 55.62 |
| | 22:00 | 31.49 | 55.55 |
| | 22:00 | 30.60 | 55.13 |
| | 22:00 | 39.74 | 56.34 |
| | 22:00 | 33.72 | 55.43 |
| | 22:00 | 30.33 | 54.96 |
| | 22:00 | 28.77 | 54.72 |
| | 22:01 | 32.44 | 55.78 |
| | 22:01 | 31.16 | 54.81 |
| | 22:01 | 33.41 | 57.64 |
| | 22:01 | 29.68 | 55.25 |
| | 22:01 | 28.50 | 55.25 |
| | 22:01 | 30.40 | 55.90 |
| | 22:02 | 30.48 | 55.61 |
| | 22:02 | 29.33 | 55.44 |
| | 22:02 | 28.76 | 54.22 |
| | 22:02 | 29.66 | 55.08 |
| | 22:02 | 28.52 | 54.39 |
| | 22:02 | 28.19 | 53.91 |
| | 22:03 | 29.51 | 53.96 |
| | 22:03 | 28.30 | 54.56 |
| | 22:03 | 29.46 | 54.78 |
| | 22:03 | 29.20 | 55.43 |
| | 22:03 | 30.29 | 54.80 |
| | 22:03 | 29.02 | 54.82 |
| | 22:04 | 28.99 | 54.24 |
| | 22:04 | 26.82 | 54.90 |
| | 22:04 | 28.84 | 55.20 |
| | 22:04 | 28.75 | 54.83 |
| | 22:04 | 28.91 | 55.41 |
| | 22:04 | 29.70 | 55.07 |
| | 22:05 | 30.67 | 54.79 |
| | 22:05 | 27.49 | 55.34 |
| | 22:05 | 28.87 | 55.00 |
| | 22:05 | 29.15 | 54.56 |
| | 22:05 | 30.27 | 55.19 |
| | 22:05 | 28.81 | 54.84 |
| | 22:06 | 28.37 | 53.88 |
| | 22:06 | 27.37 | 54.65 |
| | 22:06 | 30.02 | 54.32 |
| | 22:06 | 28.50 | 54.03 |
| | 22:06 | 29.23 | 54.45 |
| | 22:06 | 27.26 | 55.22 |
| | 22:07 | 29.07 | 55.02 |
| | 22:07 | 29.61 | 55.01 |
| | 22:07 | 28.99 | 54.62 |
| | 22:07 | 28.76 | 55.04 |
| | 22:07 | 29.83 | 55.24 |
| | 22:07 | 28.08 | 54.43 |
| | 22:08 | 27.73 | 54.78 |
| | 22:08 | 27.73 | 54.88 |
| | 22:08 | 27.62 | 54.46 |
| | 22:08 | 27.99 | 53.52 |
| | 22:08 | 27.18 | 54.73 |
| | 22:08 | 28.40 | 55.41 |
| | 22:09 | 27.32 | 54.12 |
| | 22:09 | 28.95 | 55.45 |
| | 22:09 | 28.84 | 54.59 |
| | 22:09 | 27.34 | 54.19 |
| | 22:09 | 27.66 | 54.86 |
| | 22:09 | 27.33 | 55.72 |
| | 22:10 | 28.98 | 54.83 |
| | 22:10 | 30.18 | 54.91 |
| | 22:10 | 31.39 | 54.78 |
| | 22:10 | 30.21 | 55.28 |
| | 22:10 | 30.45 | 55.03 |
| | 22:10 | 27.41 | 54.93 |
| | 22:11 | 28.06 | 54.43 |
| | 22:11 | 27.43 | 55.66 |
| | 22:11 | 29.72 | 54.88 |
| | 22:11 | 29.21 | 55.21 |
| | 22:11 | 27.66 | 54.99 |
| | 22:11 | 29.39 | 55.31 |
| | 22:12 | 27.84 | 55.20 |

| Site 2 | 4/8/21 | |
|---|---|---|
| time | LAeq | LCeq |
| 22:12 | 28.37 | 54.29 |
| 22:12 | 27.76 | 54.69 |
| 22:12 | 28.27 | 55.44 |
| 22:12 | 28.46 | 55.63 |
| 22:12 | 29.69 | 54.81 |
| 22:13 | 28.79 | 54.82 |
| 22:13 | 27.34 | 54.96 |
| 22:13 | 29.43 | 54.44 |
| 22:13 | 26.62 | 53.95 |
| 22:13 | 28.32 | 55.05 |
| 22:13 | 27.72 | 54.88 |
| 22:14 | 29.49 | 55.84 |
| 22:14 | 29.00 | 54.74 |
| 22:14 | 28.20 | 54.94 |
| 22:14 | 29.54 | 55.29 |
| 22:14 | 27.47 | 54.91 |
| 22:14 | 27.36 | 55.11 |
| 22:15 | 28.38 | 55.21 |
| 22:15 | 27.39 | 54.81 |
| 22:15 | 28.26 | 55.32 |
| 22:15 | 31.08 | 54.43 |
| 22:15 | 30.00 | 55.20 |
| 22:15 | 27.38 | 55.08 |
| 22:16 | 28.45 | 54.96 |
| 22:16 | 29.59 | 54.83 |
| 22:16 | 28.71 | 54.52 |
| 22:16 | 27.65 | 54.29 |
| 22:16 | 28.80 | 54.50 |
| 22:16 | 27.32 | 55.35 |
| 22:17 | 27.01 | 54.47 |
| 22:17 | 28.49 | 54.52 |
| 22:17 | 27.91 | 54.62 |
| 22:17 | 27.72 | 54.71 |
| 22:17 | 28.24 | 54.38 |
| 22:17 | 27.23 | 54.90 |
| 22:18 | 28.56 | 54.64 |
| 22:18 | 28.42 | 54.61 |
| 22:18 | 35.95 | 55.93 |
| 22:18 | 39.98 | 57.28 |
| 22:18 | 39.84 | 58.08 |
| 22:18 | 38.38 | 57.43 |
| 22:19 | 37.28 | 56.56 |
| 22:19 | 34.27 | 55.78 |
| 22:19 | 33.35 | 55.51 |
| 22:19 | 33.91 | 56.39 |
| 22:19 | 33.72 | 56.91 |
| 22:19 | 33.01 | 56.91 |
| 22:20 | 32.12 | 56.39 |
| 22:20 | 33.72 | 55.84 |
| 22:20 | 31.13 | 54.99 |
| 22:20 | 30.32 | 54.68 |
| 22:20 | 29.09 | 55.11 |
| 22:20 | 27.56 | 55.19 |
| 22:21 | 28.63 | 54.62 |
| 22:21 | 30.21 | 55.10 |
| 22:21 | 29.09 | 55.17 |
| 22:21 | 29.37 | 55.07 |
| 22:21 | 28.65 | 55.21 |
| 22:21 | 29.10 | 54.15 |
| 22:22 | 28.50 | 54.39 |
| 22:22 | 27.55 | 54.66 |
| 22:22 | 28.32 | 54.22 |
| 22:22 | 27.33 | 54.26 |
| 22:22 | 26.27 | 54.41 |
| 22:22 | 28.44 | 54.99 |
| 22:23 | 27.53 | 55.06 |
| 22:23 | 26.31 | 54.68 |
| 22:23 | 26.45 | 54.58 |
| 22:23 | 29.00 | 54.72 |
| 22:23 | 27.74 | 55.18 |
| 22:23 | 30.33 | 55.77 |
| 22:24 | 28.75 | 54.57 |
| 22:24 | 29.50 | 54.81 |
| 22:24 | 27.81 | 54.77 |

| Site 2 | | 4/8/21 | |
|---|---|---|---|
| time | | LAeq | LCeq |
| | 22:24 | 28.36 | 54.50 |
| | 22:24 | 28.21 | 54.67 |
| | 22:24 | 29.05 | 54.68 |
| | 22:25 | 27.83 | 54.48 |
| | 22:25 | 28.79 | 54.30 |
| | 22:25 | 26.91 | 54.62 |
| | 22:25 | 29.55 | 53.80 |
| | 22:25 | 27.34 | 54.33 |
| | 22:25 | 28.47 | 54.79 |
| | 22:26 | 28.03 | 54.76 |
| | 22:26 | 30.01 | 55.17 |
| | 22:26 | 29.22 | 55.21 |
| | 22:26 | 29.37 | 54.96 |
| | 22:26 | 29.86 | 55.23 |
| | 22:27 | 27.92 | 56.45 |
| | 22:27 | 28.43 | 54.64 |
| | 22:27 | 28.56 | 54.67 |
| | 22:27 | 29.60 | 54.33 |
| | 22:27 | 27.35 | 53.91 |
| | 22:27 | 27.75 | 55.45 |
| | 22:28 | 29.42 | 55.37 |
| | 22:28 | 30.52 | 55.44 |
| | 22:28 | 28.92 | 54.51 |
| | 22:28 | 27.04 | 54.50 |
| | 22:28 | 26.69 | 55.03 |
| | 22:28 | 27.77 | 55.97 |
| | 22:29 | 29.19 | 55.61 |
| | 22:29 | 29.77 | 55.41 |
| | 22:29 | 29.64 | 55.12 |
| | 22:29 | 30.35 | 55.46 |
| | 22:29 | 33.06 | 55.45 |
| | 22:29 | 30.46 | 54.76 |
| | 22:30 | 30.81 | 53.38 |
| | 22:30 | 31.76 | 53.82 |
| | 22:30 | 31.18 | 54.76 |
| | 22:30 | 31.64 | 54.25 |
| | 22:30 | 31.17 | 54.45 |
| | 22:30 | 30.18 | 54.55 |
| | 22:31 | 30.76 | 54.67 |
| | 22:31 | 29.16 | 54.93 |
| | 22:31 | 28.49 | 55.23 |
| | 22:31 | 31.59 | 56.08 |
| | 22:31 | 29.26 | 54.62 |
| | 22:31 | 28.82 | 55.20 |
| | 22:32 | 31.12 | 55.31 |
| | 22:32 | 32.71 | 57.38 |
| | 22:32 | 28.52 | 56.14 |
| | 22:32 | 30.69 | 54.92 |
| | 22:32 | 29.96 | 55.03 |
| | 22:32 | 35.89 | 55.03 |
| | 22:33 | 42.01 | 55.65 |
| | 22:33 | 36.03 | 55.14 |
| | 22:33 | 33.38 | 55.15 |
| | 22:33 | 34.25 | 55.45 |
| | 22:33 | 31.07 | 54.83 |
| | 22:33 | 29.47 | 54.64 |
| | 22:34 | 27.90 | 54.71 |
| | 22:34 | 30.55 | 54.14 |
| | 22:34 | 31.64 | 55.00 |
| | 22:34 | 30.53 | 55.66 |
| | 22:34 | 32.84 | 56.72 |
| | 22:34 | 29.63 | 54.75 |
| | 22:35 | 29.50 | 53.58 |
| | 22:35 | 30.27 | 54.91 |
| | 22:35 | 27.65 | 54.48 |
| | 22:35 | 30.60 | 53.83 |
| | 22:35 | 29.04 | 53.98 |
| | 22:35 | 28.69 | 53.75 |
| | 22:36 | 29.92 | 54.51 |
| | 22:36 | 31.02 | 54.83 |
| | 22:36 | 29.64 | 54.71 |
| | 22:36 | 29.14 | 55.14 |
| | 22:36 | 29.27 | 55.25 |
| | 22:36 | 30.13 | 55.58 |

| Site 2 | | 4/8/21 | |
|---|---|---|---|
| time | | LAeq | LCeq |
| | 22:37 | 30.19 | 54.45 |
| | 22:37 | 30.27 | 55.34 |
| | 22:37 | 30.64 | 55.12 |
| | 22:37 | 28.33 | 54.84 |
| | 22:37 | 27.25 | 53.22 |
| | 22:37 | 27.97 | 54.43 |
| | 22:38 | 28.32 | 54.81 |
| | 22:38 | 28.67 | 54.35 |
| | 22:38 | 28.67 | 54.48 |
| | 22:38 | 29.36 | 54.07 |
| | 22:38 | 29.97 | 54.99 |
| | 22:38 | 31.25 | 54.68 |
| | 22:39 | 29.89 | 55.55 |
| | 22:39 | 28.88 | 54.81 |
| | 22:39 | 29.07 | 55.15 |
| | 22:39 | 29.95 | 54.91 |
| | 22:39 | 28.77 | 54.21 |
| | 22:39 | 28.22 | 54.50 |
| | 22:40 | 30.44 | 54.68 |
| | 22:40 | 29.68 | 54.82 |
| | 22:40 | 29.79 | 54.08 |
| | 22:40 | 28.93 | 54.20 |
| | 22:40 | 30.88 | 54.48 |
| | 22:40 | 32.28 | 54.79 |
| | 22:41 | 29.81 | 55.52 |
| | 22:41 | 30.58 | 54.58 |
| | 22:41 | 32.14 | 54.14 |
| | 22:41 | 32.20 | 53.97 |
| | 22:41 | 31.97 | 55.08 |
| | 22:41 | 31.79 | 54.81 |
| | 22:42 | 31.46 | 54.49 |
| | 22:42 | 31.25 | 55.25 |
| | 22:42 | 33.62 | 55.42 |
| | 22:42 | 47.29 | 58.34 |
| | 22:42 | 39.35 | 55.76 |
| | 22:42 | 39.11 | 55.03 |
| | 22:43 | 36.46 | 54.65 |
| | 22:43 | 32.39 | 54.27 |
| | 22:43 | 31.21 | 54.63 |
| | 22:43 | 29.80 | 55.09 |
| | 22:43 | 31.33 | 54.57 |
| | 22:43 | 28.16 | 54.19 |
| | 22:44 | 28.12 | 53.85 |
| | 22:44 | 31.02 | 54.49 |
| | 22:44 | 45.35 | 57.21 |
| | 22:44 | 47.70 | 57.75 |
| | 22:44 | 43.49 | 55.07 |
| | 22:44 | 38.44 | 55.68 |
| | 22:45 | 33.63 | 55.74 |
| | 22:45 | 28.50 | 54.36 |
| | 22:45 | 30.00 | 54.99 |
| | 22:45 | 29.58 | 54.76 |
| | 22:45 | 29.26 | 54.45 |
| | 22:45 | 28.14 | 54.97 |
| | 22:46 | 29.11 | 54.81 |
| | 22:46 | 28.20 | 54.36 |
| | 22:46 | 28.91 | 54.20 |
| | 22:46 | 29.66 | 54.33 |
| | 22:46 | 31.09 | 55.17 |
| | 22:46 | 27.49 | 54.45 |
| | 22:47 | 28.42 | 55.32 |
| | 22:47 | 27.30 | 54.12 |
| | 22:47 | 29.64 | 55.33 |
| | 22:47 | 30.66 | 54.51 |
| | 22:47 | 31.78 | 54.86 |
| | 22:47 | 28.84 | 53.96 |
| | 22:48 | 29.60 | 54.94 |
| | 22:48 | 30.11 | 54.50 |
| | 22:48 | 27.83 | 54.90 |
| | 22:48 | 28.25 | 55.31 |
| | 22:48 | 29.58 | 55.07 |
| | 22:48 | 29.71 | 54.51 |
| | 22:49 | 29.13 | 54.66 |
| | 22:49 | 29.98 | 54.75 |

| Site 2 | | 4/8/21 | |
|---|---|---|---|
| time | | LAeq | LCeq |
| | 22:49 | 29.52 | 53.70 |
| | 22:49 | 29.89 | 54.67 |
| | 22:49 | 30.19 | 54.80 |
| | 22:49 | 29.10 | 54.54 |
| | 22:50 | 28.54 | 54.27 |
| | 22:50 | 28.66 | 53.78 |
| | 22:50 | 28.34 | 54.93 |
| | 22:50 | 29.75 | 54.70 |
| | 22:50 | 26.10 | 54.16 |
| | 22:50 | 28.32 | 54.08 |
| | 22:51 | 29.70 | 53.87 |
| | 22:51 | 28.32 | 53.61 |
| | 22:51 | 29.51 | 54.98 |
| | 22:51 | 31.47 | 55.20 |
| | 22:51 | 28.27 | 54.53 |
| | 22:51 | 29.66 | 54.20 |
| | 22:52 | 28.99 | 55.08 |
| | 22:52 | 28.41 | 54.40 |
| | 22:52 | 28.69 | 54.07 |
| | 22:52 | 27.56 | 54.44 |
| | 22:52 | 28.10 | 55.06 |
| | 22:52 | 30.53 | 54.76 |
| | 22:53 | 28.93 | 54.40 |
| | 22:53 | 28.56 | 54.48 |
| | 22:53 | 27.83 | 54.34 |
| | 22:53 | 27.75 | 54.25 |
| | 22:53 | 27.72 | 54.18 |
| | 22:53 | 28.65 | 54.08 |
| | 22:54 | 29.51 | 54.09 |
| | 22:54 | 29.42 | 54.18 |
| | 22:54 | 46.00 | 56.64 |
| | 22:54 | 44.37 | 56.85 |
| | 22:54 | 42.79 | 54.72 |
| | 22:54 | 38.55 | 54.67 |
| | 22:55 | 34.30 | 54.98 |
| | 22:55 | 30.43 | 55.20 |
| | 22:55 | 32.03 | 54.24 |
| | 22:55 | 28.96 | 53.65 |
| | 22:55 | 28.69 | 54.79 |
| | 22:55 | 28.59 | 54.81 |
| | 22:56 | 28.21 | 53.98 |
| | 22:56 | 29.12 | 54.08 |
| | 22:56 | 27.97 | 53.58 |
| | 22:56 | 27.65 | 53.55 |
| | 22:56 | 27.83 | 54.16 |
| | 22:56 | 27.63 | 54.01 |
| | 22:57 | 26.79 | 53.82 |
| | 22:57 | 26.59 | 53.88 |
| | 22:57 | 28.11 | 54.20 |
| | 22:57 | 27.73 | 54.87 |
| | 22:57 | 27.74 | 54.03 |
| | 22:57 | 29.64 | 54.66 |
| | 22:58 | 27.59 | 54.50 |
| | 22:58 | 29.49 | 55.11 |
| | 22:58 | 29.17 | 55.74 |
| | 22:58 | 28.31 | 54.06 |
| | 22:58 | 28.71 | 53.68 |
| | 22:58 | 29.55 | 53.63 |
| | 22:59 | 38.43 | 55.42 |
| | 22:59 | 33.63 | 54.56 |
| | 22:59 | 36.60 | 55.44 |
| | 22:59 | 35.44 | 54.94 |
| | 22:59 | 34.93 | 54.57 |
| | 22:59 | 31.57 | 54.98 |
| | 23:00 | 29.06 | 54.89 |
| | 23:00 | 29.68 | 54.10 |
| | 23:00 | 29.48 | 54.64 |
| | 23:00 | 30.08 | 55.15 |
| | 23:00 | 27.60 | 53.90 |
| | 23:00 | 28.85 | 54.16 |
| | 23:01 | 29.26 | 54.24 |
| | 23:01 | 29.42 | 54.32 |
| | 23:01 | 28.61 | 54.01 |
| | 23:01 | 31.66 | 54.35 |

| Site 2 | | 4/8/21 |
|---|---|---|
| time | LAeq | LCeq |
| 23:01 | 30.88 | 54.30 |
| 23:01 | 28.43 | 54.71 |
| 23:02 | 29.31 | 55.06 |
| 23:02 | 27.95 | 55.15 |
| 23:02 | 27.79 | 55.27 |
| 23:02 | 27.39 | 55.39 |
| 23:02 | 29.86 | 54.19 |
| 23:02 | 27.08 | 54.00 |
| 23:03 | 29.40 | 54.86 |
| 23:03 | 28.60 | 54.82 |
| 23:03 | 26.49 | 54.82 |
| 23:03 | 27.86 | 54.39 |
| 23:03 | 28.44 | 53.91 |
| 23:03 | 28.97 | 53.54 |
| 23:04 | 27.82 | 53.31 |
| 23:04 | 27.45 | 53.87 |
| 23:04 | 27.13 | 54.14 |
| 23:04 | 27.97 | 54.02 |
| 23:04 | 28.58 | 53.98 |
| 23:04 | 26.41 | 53.88 |
| 23:05 | 27.67 | 54.48 |
| 23:05 | 27.12 | 54.32 |
| 23:05 | 27.05 | 52.94 |
| 23:05 | 27.73 | 54.46 |
| 23:05 | 29.97 | 54.85 |
| 23:05 | 29.55 | 54.04 |
| 23:06 | 27.49 | 54.35 |
| 23:06 | 26.93 | 54.50 |
| 23:06 | 29.19 | 55.28 |
| 23:06 | 29.97 | 54.96 |
| 23:06 | 28.01 | 54.70 |
| 23:06 | 27.56 | 54.03 |
| 23:07 | 30.18 | 54.14 |
| 23:07 | 29.96 | 54.52 |
| 23:07 | 28.48 | 55.36 |
| 23:07 | 28.04 | 55.66 |
| 23:07 | 29.12 | 54.99 |
| 23:07 | 30.20 | 54.43 |
| 23:08 | 31.09 | 54.66 |
| 23:08 | 27.69 | 54.37 |
| 23:08 | 28.67 | 54.72 |
| 23:08 | 29.22 | 54.44 |
| 23:08 | 27.91 | 54.70 |
| 23:08 | 28.16 | 54.28 |
| 23:09 | 33.18 | 54.99 |
| 23:09 | 37.71 | 56.10 |
| 23:09 | 39.96 | 56.55 |
| 23:09 | 38.72 | 56.36 |
| 23:09 | 38.78 | 55.60 |
| 23:09 | 37.67 | 55.95 |
| 23:10 | 34.92 | 55.54 |
| 23:10 | 34.07 | 55.80 |
| 23:10 | 32.11 | 54.72 |
| 23:10 | 29.99 | 54.99 |
| 23:10 | 28.98 | 55.37 |
| 23:10 | 28.83 | 55.12 |
| 23:11 | 28.91 | 55.41 |
| 23:11 | 28.54 | 55.67 |
| 23:11 | 28.01 | 54.25 |
| 23:11 | 26.98 | 55.65 |
| 23:11 | 27.24 | 55.30 |
| 23:11 | 28.48 | 54.14 |
| 23:12 | 28.91 | 54.68 |
| 23:12 | 28.37 | 55.65 |
| 23:12 | 29.79 | 55.38 |
| 23:12 | 30.60 | 54.99 |
| 23:12 | 31.14 | 55.64 |
| 23:12 | 29.78 | 54.38 |
| 23:13 | 28.21 | 54.76 |
| 23:13 | 29.58 | 54.64 |
| 23:13 | 28.67 | 54.70 |
| 23:13 | 27.33 | 54.80 |
| 23:13 | 31.68 | 54.78 |
| 23:13 | 29.19 | 54.00 |

| Site 2 | 4/8/21 | |
|---|---|---|
| time | LAeq | LCeq |
| 23:14 | 28.88 | 53.62 |
| 23:14 | 28.26 | 54.87 |
| 23:14 | 26.97 | 55.25 |
| 23:14 | 28.12 | 54.92 |
| 23:14 | 29.48 | 54.22 |
| 23:14 | 27.88 | 55.55 |
| 23:15 | 27.09 | 54.19 |
| 23:15 | 26.98 | 54.69 |
| 23:15 | 27.38 | 54.86 |
| 23:15 | 31.83 | 54.86 |
| 23:15 | 28.32 | 53.98 |
| 23:15 | 27.77 | 54.11 |
| 23:16 | 29.31 | 54.48 |
| 23:16 | 31.89 | 54.82 |
| 23:16 | 30.24 | 54.69 |
| 23:16 | 30.09 | 54.95 |
| 23:16 | 30.14 | 55.05 |
| 23:16 | 28.78 | 54.13 |
| 23:17 | 27.76 | 54.37 |
| 23:17 | 27.42 | 53.82 |
| 23:17 | 30.94 | 54.27 |
| 23:17 | 29.13 | 54.50 |
| 23:17 | 28.32 | 55.19 |
| 23:17 | 28.55 | 54.60 |
| 23:18 | 29.61 | 55.05 |
| 23:18 | 30.36 | 55.19 |
| 23:18 | 30.45 | 54.46 |
| 23:18 | 29.34 | 54.19 |
| 23:18 | 28.43 | 54.68 |
| 23:18 | 31.99 | 55.45 |
| 23:19 | 27.71 | 54.32 |
| 23:19 | 26.57 | 55.12 |
| 23:19 | 28.73 | 54.75 |
| 23:19 | 28.84 | 54.53 |
| 23:19 | 28.33 | 54.83 |
| 23:19 | 28.35 | 54.16 |
| 23:20 | 28.03 | 54.34 |
| 23:20 | 29.41 | 54.87 |
| 23:20 | 28.67 | 54.81 |
| 23:20 | 29.45 | 54.33 |
| 23:20 | 28.53 | 54.76 |
| 23:20 | 27.58 | 55.07 |
| 23:21 | 28.26 | 54.69 |
| 23:21 | 27.33 | 54.04 |
| 23:21 | 29.06 | 54.44 |
| 23:21 | 27.51 | 54.31 |
| 23:21 | 28.54 | 55.96 |
| 23:21 | 29.70 | 55.71 |
| 23:22 | 27.56 | 54.51 |
| 23:22 | 28.97 | 54.76 |
| 23:22 | 28.47 | 54.03 |
| 23:22 | 27.64 | 54.56 |
| 23:22 | 29.07 | 55.01 |
| 23:22 | 30.25 | 54.31 |
| 23:23 | 31.81 | 54.73 |
| 23:23 | 28.32 | 54.04 |
| 23:23 | 28.51 | 54.92 |
| 23:23 | 29.92 | 54.40 |
| 23:23 | 31.04 | 55.97 |
| 23:23 | 28.94 | 54.40 |
| 23:24 | 26.63 | 54.61 |
| 23:24 | 28.56 | 54.13 |
| 23:24 | 28.96 | 53.95 |
| 23:24 | 28.26 | 54.13 |
| 23:24 | 28.08 | 54.22 |
| 23:24 | 28.12 | 54.49 |
| 23:25 | 27.73 | 54.68 |
| 23:25 | 29.65 | 54.39 |
| 23:25 | 29.72 | 54.80 |
| 23:25 | 28.56 | 54.02 |
| 23:25 | 30.37 | 54.01 |
| 23:25 | 28.14 | 54.52 |
| 23:26 | 27.99 | 53.31 |
| 23:26 | 28.80 | 53.61 |

| Site 2 | 4/8/21 | |
|---|---|---|
| time | LAeq | LCeq |
| 23:26 | 28.57 | 54.25 |
| 23:26 | 29.33 | 54.41 |
| 23:26 | 28.68 | 54.88 |
| 23:26 | 29.01 | 54.10 |
| 23:27 | 29.65 | 54.64 |
| 23:27 | 29.95 | 53.92 |
| 23:27 | 29.17 | 54.02 |
| 23:27 | 29.08 | 54.18 |
| 23:27 | 30.82 | 54.67 |
| 23:27 | 31.49 | 54.73 |
| 23:28 | 30.30 | 54.13 |
| 23:28 | 29.67 | 54.24 |
| 23:28 | 30.78 | 55.48 |
| 23:28 | 29.22 | 54.24 |
| 23:28 | 29.53 | 54.73 |
| 23:28 | 28.50 | 54.43 |
| 23:29 | 28.71 | 54.43 |
| 23:29 | 28.78 | 54.15 |
| 23:29 | 27.90 | 54.57 |
| 23:29 | 28.64 | 54.58 |
| 23:29 | 29.77 | 54.81 |
| 23:29 | 29.10 | 55.03 |
| 23:30 | 29.89 | 54.98 |
| 23:30 | 29.82 | 55.00 |
| 23:30 | 30.45 | 54.47 |
| 23:30 | 31.33 | 55.04 |
| 23:30 | 32.67 | 54.96 |
| 23:30 | 37.95 | 55.17 |
| 23:31 | 38.48 | 54.60 |
| 23:31 | 41.28 | 55.46 |
| 23:31 | 35.08 | 55.06 |
| 23:31 | 32.11 | 54.60 |
| 23:31 | 28.97 | 54.87 |
| 23:31 | 31.48 | 53.73 |
| 23:32 | 29.91 | 54.05 |
| 23:32 | 30.92 | 55.72 |
| 23:32 | 29.53 | 54.80 |
| 23:32 | 30.19 | 54.49 |
| 23:32 | 30.48 | 55.25 |
| 23:32 | 30.05 | 55.64 |
| 23:33 | 28.35 | 54.21 |
| 23:33 | 29.10 | 54.71 |
| 23:33 | 28.96 | 55.06 |
| 23:33 | 27.76 | 54.44 |
| 23:33 | 29.53 | 55.00 |
| 23:33 | 28.73 | 53.38 |
| 23:34 | 30.24 | 54.26 |
| 23:34 | 29.71 | 54.83 |
| 23:34 | 31.00 | 54.91 |
| 23:34 | 30.65 | 54.98 |
| 23:34 | 29.50 | 55.19 |
| 23:34 | 29.60 | 54.68 |
| 23:35 | 29.55 | 53.97 |
| 23:35 | 28.50 | 54.46 |
| 23:35 | 28.59 | 54.78 |
| 23:35 | 29.54 | 54.98 |
| 23:35 | 32.22 | 55.19 |
| 23:35 | 30.39 | 55.09 |
| 23:36 | 27.95 | 54.27 |
| 23:36 | 29.35 | 54.71 |
| 23:36 | 27.92 | 54.54 |
| 23:36 | 28.20 | 54.16 |
| 23:36 | 27.39 | 54.33 |
| 23:36 | 27.93 | 54.65 |
| 23:37 | 29.76 | 54.38 |
| 23:37 | 28.59 | 54.41 |
| 23:37 | 27.43 | 54.23 |
| 23:37 | 26.63 | 53.98 |
| 23:37 | 27.96 | 54.62 |
| 23:37 | 30.11 | 53.97 |
| 23:38 | 28.82 | 54.28 |
| 23:38 | 29.67 | 54.33 |
| 23:38 | 30.36 | 54.72 |
| 23:38 | 30.03 | 54.66 |

| Site 2 | | 4/8/21 |
|---|---|---|
| time | LAeq | LCeq |
| 23:38 | 30.07 | 54.76 |
| 23:38 | 31.23 | 54.82 |
| 23:39 | 30.95 | 54.26 |
| 23:39 | 29.24 | 54.73 |
| 23:39 | 29.30 | 55.16 |
| 23:39 | 28.73 | 54.67 |
| 23:39 | 26.93 | 54.65 |
| 23:39 | 28.02 | 54.77 |
| 23:40 | 28.97 | 54.78 |
| 23:40 | 29.45 | 54.10 |
| 23:40 | 27.51 | 53.55 |
| 23:40 | 28.41 | 54.22 |
| 23:40 | 28.99 | 55.04 |
| 23:40 | 29.31 | 54.52 |
| 23:41 | 28.47 | 54.20 |
| 23:41 | 27.12 | 53.81 |
| 23:41 | 29.74 | 54.80 |
| 23:41 | 30.21 | 53.82 |
| 23:41 | 30.10 | 54.05 |
| 23:41 | 29.06 | 53.91 |
| 23:42 | 29.71 | 54.66 |
| 23:42 | 27.37 | 54.25 |
| 23:42 | 28.38 | 54.18 |
| 23:42 | 28.78 | 54.37 |
| 23:42 | 30.49 | 54.10 |
| 23:42 | 28.88 | 54.18 |
| 23:43 | 29.97 | 54.21 |
| 23:43 | 27.89 | 53.64 |
| 23:43 | 28.73 | 53.72 |
| 23:43 | 30.09 | 54.64 |
| 23:43 | 29.53 | 54.58 |
| 23:43 | 27.00 | 53.21 |
| 23:44 | 27.57 | 54.62 |
| 23:44 | 29.61 | 54.10 |
| 23:44 | 29.31 | 54.39 |
| 23:44 | 29.19 | 55.10 |
| 23:44 | 29.41 | 54.36 |
| 23:44 | 27.19 | 54.20 |
| 23:45 | 27.96 | 54.87 |
| 23:45 | 27.80 | 54.28 |
| 23:45 | 29.51 | 54.50 |
| 23:45 | 28.89 | 54.50 |
| 23:45 | 30.40 | 54.12 |
| 23:45 | 28.49 | 53.82 |
| 23:46 | 28.30 | 54.42 |
| 23:46 | 28.53 | 54.42 |
| 23:46 | 28.17 | 54.83 |
| 23:46 | 28.29 | 53.81 |
| 23:46 | 26.17 | 54.00 |
| 23:46 | 29.10 | 54.68 |
| 23:47 | 29.37 | 54.35 |
| 23:47 | 28.70 | 54.57 |
| 23:47 | 29.89 | 54.17 |
| 23:47 | 29.23 | 54.59 |
| 23:47 | 29.19 | 54.20 |
| 23:47 | 30.01 | 54.38 |
| 23:48 | 31.75 | 55.16 |
| 23:48 | 29.79 | 54.47 |
| 23:48 | 30.66 | 54.28 |
| 23:48 | 29.40 | 53.95 |
| 23:48 | 28.88 | 53.95 |
| 23:48 | 28.31 | 54.02 |
| 23:49 | 28.19 | 54.22 |
| 23:49 | 28.57 | 53.48 |
| 23:49 | 31.53 | 54.13 |
| 23:49 | 28.89 | 54.59 |
| 23:49 | 27.44 | 55.15 |
| 23:49 | 28.88 | 54.45 |
| 23:50 | 27.67 | 53.95 |
| 23:50 | 27.42 | 54.45 |
| 23:50 | 28.67 | 54.74 |
| 23:50 | 28.26 | 54.38 |
| 23:50 | 29.24 | 54.30 |
| 23:50 | 26.83 | 54.48 |

| Site 2 | | 4/8/21 | |
|---|---|---|---|
| time | | LAeq | LCeq |
| | 23:51 | 29.06 | 53.79 |
| | 23:51 | 29.52 | 54.82 |
| | 23:51 | 28.08 | 53.74 |
| | 23:51 | 29.05 | 54.57 |
| | 23:51 | 29.34 | 54.13 |
| | 23:51 | 29.54 | 54.26 |
| | 23:52 | 28.04 | 54.50 |
| | 23:52 | 28.49 | 53.83 |
| | 23:52 | 28.58 | 54.43 |
| | 23:52 | 30.53 | 55.33 |
| | 23:52 | 29.00 | 54.66 |
| | 23:52 | 29.31 | 54.07 |
| | 23:53 | 28.97 | 54.41 |
| | 23:53 | 28.16 | 54.22 |
| | 23:53 | 29.96 | 54.59 |
| | 23:53 | 29.42 | 54.78 |
| | 23:53 | 30.10 | 54.41 |
| | 23:53 | 28.14 | 53.93 |
| | 23:54 | 26.61 | 53.83 |
| | 23:54 | 27.25 | 53.82 |
| | 23:54 | 29.18 | 54.77 |
| | 23:54 | 30.93 | 54.36 |
| | 23:54 | 27.98 | 55.39 |
| | 23:54 | 28.58 | 54.19 |
| | 23:55 | 27.85 | 53.69 |
| | 23:55 | 28.25 | 54.66 |
| | 23:55 | 30.97 | 55.20 |
| | 23:55 | 29.34 | 54.33 |
| | 23:55 | 29.84 | 54.73 |
| | 23:55 | 31.04 | 56.19 |
| | 23:56 | 30.98 | 55.00 |
| | 23:56 | 29.63 | 54.24 |
| | 23:56 | 30.05 | 54.89 |
| | 23:56 | 28.38 | 54.14 |
| | 23:56 | 29.65 | 54.60 |
| | 23:56 | 29.57 | 54.80 |
| | 23:57 | 31.52 | 54.92 |
| | 23:57 | 31.27 | 55.29 |
| | 23:57 | 31.17 | 54.59 |
| | 23:57 | 30.36 | 53.83 |
| | 23:57 | 30.18 | 54.38 |
| | 23:57 | 33.80 | 53.98 |
| | 23:58 | 38.58 | 54.03 |
| | 23:58 | 30.76 | 54.54 |
| | 23:58 | 30.47 | 54.78 |
| | 23:58 | 29.80 | 54.73 |
| | 23:58 | 31.94 | 54.67 |
| | 23:58 | 33.02 | 55.04 |
| | 23:59 | 30.43 | 54.34 |
| | 23:59 | 30.74 | 54.66 |
| | 23:59 | 30.32 | 54.31 |
| | 23:59 | 33.41 | 54.29 |
| | 23:59 | 33.40 | 55.04 |
| | 23:59 | 31.75 | 55.17 |
| | | | |
| Maximum | | 47.70 | 58.34 |
| Minimum | | 26.10 | 52.94 |
| Average | | 29.74 | 54.72 |

| Site 1 | 4/9/21 | |
|---|---|---|
| Time | LAeq | LCeq |
| 4/9/2021 0:18 | 40.91 | 59.40 |
| 0:18 | 39.09 | 59.05 |
| 0:19 | 37.29 | 59.64 |
| 0:19 | 36.86 | 59.84 |
| 0:19 | 41.42 | 60.61 |
| 0:19 | 37.45 | 59.73 |
| 0:19 | 39.83 | 59.48 |
| 0:19 | 39.78 | 59.39 |
| 0:20 | 37.73 | 59.84 |
| 0:20 | 37.64 | 59.26 |
| 0:20 | 37.31 | 59.25 |
| 0:20 | 37.69 | 60.17 |
| 0:20 | 37.06 | 58.97 |
| 0:20 | 35.20 | 59.23 |
| 0:21 | 37.31 | 60.20 |
| 0:21 | 38.57 | 59.35 |
| 0:21 | 37.01 | 60.14 |
| 0:21 | 37.56 | 60.24 |
| 0:21 | 37.27 | 59.35 |
| 0:21 | 36.17 | 59.29 |
| 0:22 | 37.22 | 60.09 |
| 0:22 | 36.76 | 59.88 |
| 0:22 | 36.45 | 59.58 |
| 0:22 | 37.17 | 59.72 |
| 0:22 | 36.11 | 59.13 |
| 0:22 | 36.52 | 58.63 |
| 0:23 | 34.88 | 58.38 |
| 0:23 | 37.52 | 58.78 |
| 0:23 | 36.27 | 59.12 |
| 0:23 | 35.44 | 58.05 |
| 0:23 | 36.87 | 58.61 |
| 0:23 | 36.78 | 59.35 |
| 0:24 | 36.51 | 59.29 |
| 0:24 | 36.95 | 58.64 |
| 0:24 | 38.52 | 58.69 |
| 0:24 | 38.41 | 59.63 |
| 0:24 | 35.85 | 59.11 |
| 0:24 | 37.48 | 59.30 |
| 0:25 | 35.38 | 59.17 |
| 0:25 | 35.47 | 59.77 |
| 0:25 | 35.94 | 59.12 |
| 0:25 | 36.24 | 59.57 |
| 0:25 | 35.94 | 59.08 |
| 0:25 | 36.49 | 58.70 |
| 0:26 | 35.69 | 59.08 |
| 0:26 | 35.22 | 59.26 |
| 0:26 | 36.90 | 59.87 |
| 0:26 | 36.79 | 60.06 |
| 0:26 | 36.66 | 59.91 |
| 0:26 | 38.82 | 59.92 |
| 0:27 | 37.92 | 58.40 |
| 0:27 | 34.71 | 59.25 |
| 0:27 | 35.23 | 59.55 |
| 0:27 | 36.17 | 59.64 |
| 0:27 | 36.10 | 59.47 |
| 0:27 | 37.33 | 59.62 |
| 0:28 | 36.23 | 58.73 |
| 0:28 | 36.44 | 59.41 |
| 0:28 | 37.79 | 60.20 |
| 0:28 | 37.18 | 60.02 |
| 0:28 | 36.13 | 58.75 |
| 0:28 | 34.60 | 58.87 |
| 0:29 | 36.09 | 59.50 |
| 0:29 | 35.80 | 59.07 |
| 0:29 | 37.29 | 59.65 |
| 0:29 | 35.86 | 59.18 |
| 0:29 | 36.18 | 59.53 |
| 0:29 | 36.55 | 60.18 |
| 0:30 | 36.59 | 59.51 |
| 0:30 | 35.48 | 59.42 |
| 0:30 | 37.11 | 59.96 |
| 0:30 | 37.18 | 59.65 |
| 0:30 | 37.99 | 60.20 |
| 0:30 | 35.69 | 59.75 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 0:31 | 36.32 | 59.80 |
| | 0:31 | 36.86 | 59.61 |
| | 0:31 | 37.16 | 59.82 |
| | 0:31 | 36.47 | 59.95 |
| | 0:31 | 36.73 | 59.41 |
| | 0:31 | 37.01 | 59.35 |
| | 0:32 | 37.56 | 59.41 |
| | 0:32 | 37.43 | 59.63 |
| | 0:32 | 37.44 | 59.49 |
| | 0:32 | 37.29 | 60.26 |
| | 0:32 | 37.75 | 59.88 |
| | 0:32 | 36.46 | 59.59 |
| | 0:33 | 39.36 | 60.40 |
| | 0:33 | 38.54 | 60.24 |
| | 0:33 | 39.24 | 59.43 |
| | 0:33 | 36.87 | 59.56 |
| | 0:33 | 36.22 | 59.09 |
| | 0:33 | 35.82 | 59.40 |
| | 0:34 | 35.44 | 59.96 |
| | 0:34 | 36.90 | 58.93 |
| | 0:34 | 38.18 | 59.45 |
| | 0:34 | 38.03 | 60.21 |
| | 0:34 | 38.31 | 60.48 |
| | 0:34 | 37.97 | 60.08 |
| | 0:35 | 36.59 | 59.17 |
| | 0:35 | 37.36 | 59.77 |
| | 0:35 | 38.53 | 60.14 |
| | 0:35 | 35.54 | 59.74 |
| | 0:35 | 35.90 | 59.60 |
| | 0:35 | 37.28 | 59.18 |
| | 0:36 | 37.87 | 60.13 |
| | 0:36 | 36.79 | 60.32 |
| | 0:36 | 36.08 | 60.37 |
| | 0:36 | 37.93 | 60.23 |
| | 0:36 | 38.08 | 59.56 |
| | 0:36 | 36.77 | 59.09 |
| | 0:37 | 38.86 | 60.33 |
| | 0:37 | 39.84 | 59.89 |
| | 0:37 | 37.38 | 60.04 |
| | 0:37 | 37.91 | 59.14 |
| | 0:37 | 38.24 | 59.82 |
| | 0:37 | 37.64 | 59.72 |
| | 0:38 | 38.66 | 60.17 |
| | 0:38 | 38.66 | 60.15 |
| | 0:38 | 37.22 | 59.81 |
| | 0:38 | 38.07 | 59.76 |
| | 0:38 | 36.79 | 58.94 |
| | 0:38 | 38.03 | 59.77 |
| | 0:39 | 37.80 | 59.93 |
| | 0:39 | 38.09 | 60.54 |
| | 0:39 | 38.03 | 60.50 |
| | 0:39 | 38.46 | 59.41 |
| | 0:39 | 38.19 | 58.89 |
| | 0:39 | 36.81 | 59.69 |
| | 0:40 | 37.42 | 59.52 |
| | 0:40 | 37.99 | 60.22 |
| | 0:40 | 36.84 | 60.17 |
| | 0:40 | 36.81 | 59.59 |
| | 0:40 | 38.05 | 59.59 |
| | 0:40 | 36.00 | 59.25 |
| | 0:41 | 36.72 | 60.00 |
| | 0:41 | 39.60 | 60.69 |
| | 0:41 | 38.45 | 60.16 |
| | 0:41 | 37.36 | 59.88 |
| | 0:41 | 37.24 | 59.71 |
| | 0:41 | 38.32 | 59.44 |
| | 0:42 | 37.41 | 59.63 |
| | 0:42 | 38.50 | 60.09 |
| | 0:42 | 37.31 | 60.51 |
| | 0:42 | 38.47 | 60.22 |
| | 0:42 | 38.41 | 60.45 |
| | 0:42 | 39.21 | 59.76 |
| | 0:43 | 38.71 | 59.64 |
| | 0:43 | 37.05 | 59.66 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 0:43 | 36.19 | 59.71 |
| | 0:43 | 37.20 | 59.27 |
| | 0:43 | 38.36 | 61.13 |
| | 0:43 | 37.83 | 60.07 |
| | 0:44 | 37.25 | 59.66 |
| | 0:44 | 38.03 | 59.51 |
| | 0:44 | 36.90 | 59.72 |
| | 0:44 | 38.08 | 59.94 |
| | 0:44 | 35.93 | 59.65 |
| | 0:44 | 37.34 | 60.90 |
| | 0:45 | 37.55 | 59.85 |
| | 0:45 | 37.02 | 58.97 |
| | 0:45 | 36.52 | 59.32 |
| | 0:45 | 36.10 | 59.04 |
| | 0:45 | 38.16 | 60.39 |
| | 0:45 | 37.33 | 59.42 |
| | 0:46 | 37.80 | 59.60 |
| | 0:46 | 37.63 | 59.39 |
| | 0:46 | 37.24 | 59.79 |
| | 0:46 | 38.54 | 59.94 |
| | 0:46 | 39.77 | 60.03 |
| | 0:46 | 38.83 | 60.32 |
| | 0:47 | 37.58 | 60.10 |
| | 0:47 | 37.51 | 59.98 |
| | 0:47 | 38.08 | 59.55 |
| | 0:47 | 37.36 | 59.92 |
| | 0:47 | 37.34 | 58.69 |
| | 0:47 | 37.76 | 59.56 |
| | 0:48 | 37.58 | 60.62 |
| | 0:48 | 38.50 | 60.06 |
| | 0:48 | 36.92 | 60.23 |
| | 0:48 | 35.21 | 58.92 |
| | 0:48 | 35.98 | 59.37 |
| | 0:48 | 36.53 | 60.08 |
| | 0:49 | 37.48 | 60.24 |
| | 0:49 | 37.57 | 59.99 |
| | 0:49 | 37.34 | 59.80 |
| | 0:49 | 36.68 | 59.96 |
| | 0:49 | 36.93 | 59.44 |
| | 0:49 | 36.86 | 60.02 |
| | 0:50 | 37.91 | 60.81 |
| | 0:50 | 38.65 | 60.35 |
| | 0:50 | 37.37 | 59.72 |
| | 0:50 | 37.13 | 59.61 |
| | 0:50 | 37.93 | 60.11 |
| | 0:50 | 38.25 | 59.78 |
| | 0:51 | 37.65 | 60.14 |
| | 0:51 | 38.33 | 60.93 |
| | 0:51 | 37.77 | 59.74 |
| | 0:51 | 37.64 | 60.05 |
| | 0:51 | 38.01 | 59.94 |
| | 0:51 | 38.56 | 59.42 |
| | 0:52 | 39.30 | 60.05 |
| | 0:52 | 41.13 | 60.45 |
| | 0:52 | 40.06 | 60.68 |
| | 0:52 | 38.68 | 59.86 |
| | 0:52 | 38.64 | 59.97 |
| | 0:53 | 38.10 | 60.27 |
| | 0:53 | 39.05 | 60.43 |
| | 0:53 | 38.45 | 59.84 |
| | 0:53 | 37.90 | 60.70 |
| | 0:53 | 39.52 | 60.88 |
| | 0:53 | 37.86 | 60.46 |
| | 0:54 | 38.18 | 61.07 |
| | 0:54 | 38.70 | 60.40 |
| | 0:54 | 39.22 | 60.44 |
| | 0:54 | 38.75 | 60.18 |
| | 0:54 | 38.00 | 60.21 |
| | 0:54 | 39.08 | 60.16 |
| | 0:55 | 37.99 | 60.59 |
| | 0:55 | 38.48 | 60.73 |
| | 0:55 | 37.53 | 60.56 |
| | 0:55 | 38.48 | 60.42 |
| | 0:55 | 38.01 | 59.84 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 0:55 | 38.24 | 59.56 |
| | 0:56 | 37.86 | 60.33 |
| | 0:56 | 38.18 | 59.54 |
| | 0:56 | 37.81 | 60.11 |
| | 0:56 | 38.28 | 60.98 |
| | 0:56 | 38.09 | 60.25 |
| | 0:56 | 37.31 | 59.56 |
| | 0:57 | 37.76 | 59.54 |
| | 0:57 | 37.75 | 60.60 |
| | 0:57 | 38.82 | 60.35 |
| | 0:57 | 38.50 | 60.09 |
| | 0:57 | 36.56 | 59.15 |
| | 0:57 | 37.32 | 60.07 |
| | 0:58 | 37.68 | 60.35 |
| | 0:58 | 37.81 | 60.85 |
| | 0:58 | 37.54 | 60.96 |
| | 0:58 | 36.54 | 60.02 |
| | 0:58 | 38.46 | 59.84 |
| | 0:58 | 36.63 | 59.81 |
| | 0:59 | 37.68 | 60.13 |
| | 0:59 | 37.37 | 60.46 |
| | 0:59 | 37.20 | 60.30 |
| | 0:59 | 37.57 | 60.56 |
| | 0:59 | 37.38 | 60.71 |
| | 0:59 | 37.61 | 61.26 |
| | 1:00 | 38.48 | 60.23 |
| | 1:00 | 37.76 | 60.67 |
| | 1:00 | 37.20 | 60.55 |
| | 1:00 | 37.16 | 59.72 |
| | 1:00 | 37.82 | 60.64 |
| | 1:00 | 38.33 | 60.59 |
| | 1:01 | 37.60 | 60.74 |
| | 1:01 | 38.68 | 60.64 |
| | 1:01 | 39.71 | 59.81 |
| | 1:01 | 37.49 | 59.75 |
| | 1:01 | 38.99 | 60.24 |
| | 1:01 | 38.15 | 59.80 |
| | 1:02 | 38.37 | 59.23 |
| | 1:02 | 39.93 | 60.39 |
| | 1:02 | 39.17 | 61.08 |
| | 1:02 | 38.55 | 60.04 |
| | 1:02 | 37.85 | 59.95 |
| | 1:02 | 38.89 | 60.68 |
| | 1:03 | 37.43 | 59.32 |
| | 1:03 | 36.42 | 59.56 |
| | 1:03 | 37.60 | 60.39 |
| | 1:03 | 38.28 | 60.21 |
| | 1:03 | 38.17 | 59.69 |
| | 1:03 | 36.50 | 60.28 |
| | 1:04 | 37.20 | 60.71 |
| | 1:04 | 36.62 | 60.38 |
| | 1:04 | 37.80 | 59.91 |
| | 1:04 | 37.38 | 60.00 |
| | 1:04 | 36.38 | 60.48 |
| | 1:04 | 36.68 | 59.95 |
| | 1:05 | 36.65 | 59.89 |
| | 1:05 | 37.28 | 60.01 |
| | 1:05 | 36.19 | 60.30 |
| | 1:05 | 38.12 | 61.08 |
| | 1:05 | 37.06 | 59.94 |
| | 1:05 | 36.96 | 60.18 |
| | 1:06 | 37.11 | 60.58 |
| | 1:06 | 36.38 | 59.68 |
| | 1:06 | 38.36 | 60.89 |
| | 1:06 | 38.41 | 59.49 |
| | 1:06 | 39.93 | 60.26 |
| | 1:06 | 38.07 | 59.92 |
| | 1:07 | 37.06 | 59.85 |
| | 1:07 | 37.95 | 59.76 |
| | 1:07 | 35.87 | 59.56 |
| | 1:07 | 36.74 | 59.73 |
| | 1:07 | 36.78 | 59.75 |
| | 1:07 | 37.77 | 59.08 |
| | 1:08 | 37.99 | 60.43 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 1:08 | 37.69 | 61.13 |
| | 1:08 | 36.93 | 60.24 |
| | 1:08 | 36.66 | 60.23 |
| | 1:08 | 37.96 | 60.49 |
| | 1:08 | 37.81 | 60.62 |
| | 1:09 | 37.82 | 60.11 |
| | 1:09 | 37.89 | 60.20 |
| | 1:09 | 37.46 | 60.14 |
| | 1:09 | 36.19 | 60.23 |
| | 1:09 | 37.05 | 59.79 |
| | 1:09 | 37.10 | 59.61 |
| | 1:10 | 36.50 | 60.36 |
| | 1:10 | 36.08 | 60.35 |
| | 1:10 | 36.18 | 60.32 |
| | 1:10 | 36.07 | 59.73 |
| | 1:10 | 36.04 | 59.72 |
| | 1:10 | 36.02 | 59.54 |
| | 1:11 | 36.26 | 60.64 |
| | 1:11 | 36.27 | 59.93 |
| | 1:11 | 36.53 | 59.85 |
| | 1:11 | 36.70 | 59.63 |
| | 1:11 | 35.97 | 59.73 |
| | 1:11 | 36.39 | 60.47 |
| | 1:12 | 37.80 | 60.27 |
| | 1:12 | 36.62 | 59.51 |
| | 1:12 | 35.89 | 59.38 |
| | 1:12 | 37.51 | 59.98 |
| | 1:12 | 36.14 | 59.98 |
| | 1:12 | 36.77 | 59.77 |
| | 1:13 | 37.42 | 60.08 |
| | 1:13 | 38.50 | 60.62 |
| | 1:13 | 36.83 | 60.10 |
| | 1:13 | 36.82 | 59.72 |
| | 1:13 | 36.96 | 59.28 |
| | 1:13 | 36.65 | 59.62 |
| | 1:14 | 37.53 | 59.52 |
| | 1:14 | 36.80 | 58.98 |
| | 1:14 | 36.73 | 59.71 |
| | 1:14 | 37.83 | 60.32 |
| | 1:14 | 37.35 | 59.22 |
| | 1:14 | 36.11 | 60.17 |
| | 1:15 | 37.73 | 60.99 |
| | 1:15 | 39.63 | 61.02 |
| | 1:15 | 37.28 | 60.27 |
| | 1:15 | 36.38 | 59.88 |
| | 1:15 | 37.01 | 59.15 |
| | 1:15 | 35.64 | 59.18 |
| | 1:16 | 37.02 | 60.47 |
| | 1:16 | 37.21 | 59.69 |
| | 1:16 | 38.83 | 60.89 |
| | 1:16 | 38.01 | 60.20 |
| | 1:16 | 37.83 | 59.72 |
| | 1:16 | 37.80 | 60.71 |
| | 1:17 | 37.66 | 60.69 |
| | 1:17 | 37.13 | 60.11 |
| | 1:17 | 36.22 | 60.40 |
| | 1:17 | 38.49 | 59.93 |
| | 1:17 | 36.46 | 59.73 |
| | 1:17 | 39.67 | 60.18 |
| | 1:18 | 38.92 | 59.20 |
| | 1:18 | 40.78 | 60.26 |
| | 1:18 | 40.73 | 61.02 |
| | 1:18 | 40.75 | 59.33 |
| | 1:18 | 39.23 | 60.04 |
| | 1:18 | 37.77 | 59.94 |
| | 1:19 | 39.15 | 59.26 |
| | 1:19 | 37.96 | 60.27 |
| | 1:19 | 39.61 | 59.69 |
| | 1:19 | 39.81 | 59.69 |
| | 1:19 | 38.10 | 59.75 |
| | 1:19 | 37.45 | 59.67 |
| | 1:20 | 38.61 | 59.92 |
| | 1:20 | 37.41 | 59.83 |
| | 1:20 | 37.27 | 59.52 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 1:20 | 38.03 | 60.14 |
| | 1:20 | 37.48 | 60.32 |
| | 1:20 | 38.68 | 60.21 |
| | 1:21 | 37.49 | 58.85 |
| | 1:21 | 37.64 | 59.18 |
| | 1:21 | 37.67 | 60.19 |
| | 1:21 | 38.44 | 61.11 |
| | 1:21 | 38.09 | 59.52 |
| | 1:21 | 37.34 | 60.07 |
| | 1:22 | 37.30 | 59.47 |
| | 1:22 | 36.35 | 59.15 |
| | 1:22 | 36.30 | 59.24 |
| | 1:22 | 35.69 | 59.60 |
| | 1:22 | 37.43 | 59.31 |
| | 1:22 | 36.56 | 60.01 |
| | 1:23 | 37.82 | 59.93 |
| | 1:23 | 36.47 | 59.64 |
| | 1:23 | 36.19 | 59.61 |
| | 1:23 | 36.26 | 60.03 |
| | 1:23 | 36.14 | 59.74 |
| | 1:23 | 39.70 | 59.65 |
| | 1:24 | 37.27 | 59.79 |
| | 1:24 | 36.84 | 59.98 |
| | 1:24 | 36.73 | 59.49 |
| | 1:24 | 36.04 | 59.79 |
| | 1:24 | 37.56 | 59.90 |
| | 1:24 | 35.90 | 60.29 |
| | 1:25 | 36.37 | 60.60 |
| | 1:25 | 37.80 | 60.13 |
| | 1:25 | 38.45 | 59.79 |
| | 1:25 | 37.49 | 59.95 |
| | 1:25 | 37.14 | 59.63 |
| | 1:25 | 35.63 | 60.11 |
| | 1:26 | 36.28 | 60.11 |
| | 1:26 | 34.98 | 59.21 |
| | 1:26 | 36.19 | 60.33 |
| | 1:26 | 37.03 | 60.23 |
| | 1:26 | 38.60 | 59.31 |
| | 1:26 | 36.61 | 57.63 |
| | 1:27 | 34.87 | 58.35 |
| | 1:27 | 36.12 | 59.72 |
| | 1:27 | 37.58 | 59.91 |
| | 1:27 | 37.83 | 60.46 |
| | 1:27 | 37.94 | 59.92 |
| | 1:27 | 38.57 | 59.57 |
| | 1:28 | 36.98 | 59.10 |
| | 1:28 | 38.19 | 60.06 |
| | 1:28 | 37.93 | 59.12 |
| | 1:28 | 37.63 | 58.50 |
| | 1:28 | 37.51 | 59.63 |
| | 1:28 | 37.92 | 59.47 |
| | 1:29 | 36.69 | 59.38 |
| | 1:29 | 35.61 | 59.31 |
| | 1:29 | 37.16 | 59.34 |
| | 1:29 | 38.38 | 59.74 |
| | 1:29 | 37.66 | 59.37 |
| | 1:29 | 37.60 | 58.92 |
| | 1:30 | 35.89 | 59.30 |
| | 1:30 | 35.63 | 59.57 |
| | 1:30 | 36.11 | 59.20 |
| | 1:30 | 37.47 | 59.53 |
| | 1:30 | 37.83 | 59.27 |
| | 1:30 | 36.42 | 59.46 |
| | 1:31 | 35.63 | 60.04 |
| | 1:31 | 38.59 | 60.33 |
| | 1:31 | 37.17 | 59.24 |
| | 1:31 | 36.64 | 59.12 |
| | 1:31 | 36.41 | 59.27 |
| | 1:31 | 36.83 | 59.74 |
| | 1:32 | 37.15 | 58.90 |
| | 1:32 | 36.82 | 59.73 |
| | 1:32 | 36.60 | 59.76 |
| | 1:32 | 36.09 | 59.21 |
| | 1:32 | 36.72 | 59.20 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 1:32 | 36.22 | 59.35 |
| | 1:33 | 36.98 | 60.29 |
| | 1:33 | 37.00 | 60.02 |
| | 1:33 | 37.59 | 58.66 |
| | 1:33 | 36.85 | 58.87 |
| | 1:33 | 36.19 | 59.41 |
| | 1:33 | 37.96 | 59.82 |
| | 1:34 | 36.69 | 60.08 |
| | 1:34 | 36.71 | 59.79 |
| | 1:34 | 39.40 | 60.17 |
| | 1:34 | 36.95 | 59.64 |
| | 1:34 | 35.84 | 59.10 |
| | 1:34 | 35.56 | 59.36 |
| | 1:35 | 36.81 | 60.04 |
| | 1:35 | 37.28 | 59.78 |
| | 1:35 | 39.51 | 59.42 |
| | 1:35 | 38.06 | 59.08 |
| | 1:35 | 37.79 | 59.44 |
| | 1:35 | 35.61 | 58.34 |
| | 1:36 | 35.50 | 59.24 |
| | 1:36 | 37.46 | 59.39 |
| | 1:36 | 36.97 | 59.23 |
| | 1:36 | 37.43 | 59.35 |
| | 1:36 | 36.45 | 58.78 |
| | 1:36 | 38.46 | 59.56 |
| | 1:37 | 37.41 | 60.04 |
| | 1:37 | 36.34 | 59.29 |
| | 1:37 | 35.82 | 58.76 |
| | 1:37 | 37.10 | 59.22 |
| | 1:37 | 36.66 | 59.75 |
| | 1:37 | 36.53 | 59.43 |
| | 1:38 | 36.73 | 59.40 |
| | 1:38 | 36.47 | 58.93 |
| | 1:38 | 36.38 | 59.42 |
| | 1:38 | 35.46 | 59.33 |
| | 1:38 | 35.44 | 59.71 |
| | 1:38 | 37.36 | 58.66 |
| | 1:39 | 36.85 | 58.40 |
| | 1:39 | 36.74 | 59.54 |
| | 1:39 | 35.63 | 60.04 |
| | 1:39 | 37.76 | 59.88 |
| | 1:39 | 37.71 | 59.61 |
| | 1:39 | 37.20 | 60.05 |
| | 1:40 | 37.77 | 59.49 |
| | 1:40 | 36.50 | 59.04 |
| | 1:40 | 35.79 | 60.01 |
| | 1:40 | 38.59 | 59.99 |
| | 1:40 | 36.64 | 58.85 |
| | 1:40 | 37.23 | 59.16 |
| | 1:41 | 38.15 | 59.86 |
| | 1:41 | 37.39 | 59.48 |
| | 1:41 | 37.69 | 59.24 |
| | 1:41 | 35.93 | 59.59 |
| | 1:41 | 35.52 | 59.85 |
| | 1:41 | 35.93 | 59.33 |
| | 1:42 | 37.87 | 59.73 |
| | 1:42 | 36.03 | 59.54 |
| | 1:42 | 35.69 | 59.51 |
| | 1:42 | 36.57 | 59.22 |
| | 1:42 | 35.29 | 59.47 |
| | 1:42 | 36.89 | 59.78 |
| | 1:43 | 36.14 | 59.45 |
| | 1:43 | 36.59 | 59.76 |
| | 1:43 | 37.37 | 59.44 |
| | 1:43 | 36.77 | 59.56 |
| | 1:43 | 36.61 | 59.50 |
| | 1:43 | 35.60 | 58.94 |
| | 1:44 | 35.89 | 60.15 |
| | 1:44 | 37.41 | 59.23 |
| | 1:44 | 37.58 | 59.13 |
| | 1:44 | 37.08 | 59.64 |
| | 1:44 | 36.40 | 58.68 |
| | 1:44 | 35.84 | 58.85 |
| | 1:45 | 35.77 | 58.59 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 1:45 | 36.38 | 59.32 |
| | 1:45 | 35.93 | 58.89 |
| | 1:45 | 35.77 | 58.69 |
| | 1:45 | 35.61 | 58.95 |
| | 1:45 | 36.27 | 58.60 |
| | 1:46 | 36.71 | 59.66 |
| | 1:46 | 35.65 | 58.96 |
| | 1:46 | 36.22 | 59.45 |
| | 1:46 | 36.01 | 59.50 |
| | 1:46 | 36.42 | 59.47 |
| | 1:46 | 36.01 | 59.41 |
| | 1:47 | 36.61 | 60.00 |
| | 1:47 | 37.63 | 59.04 |
| | 1:47 | 36.73 | 59.23 |
| | 1:47 | 37.02 | 59.26 |
| | 1:47 | 36.79 | 59.58 |
| | 1:47 | 35.88 | 58.63 |
| | 1:48 | 34.46 | 58.63 |
| | 1:48 | 34.49 | 58.55 |
| | 1:48 | 34.44 | 59.65 |
| | 1:48 | 36.78 | 58.64 |
| | 1:48 | 34.94 | 59.27 |
| | 1:48 | 34.91 | 59.12 |
| | 1:49 | 35.77 | 59.19 |
| | 1:49 | 35.53 | 57.91 |
| | 1:49 | 35.10 | 58.80 |
| | 1:49 | 35.65 | 59.25 |
| | 1:49 | 36.44 | 60.17 |
| | 1:49 | 36.41 | 59.59 |
| | 1:50 | 35.86 | 59.85 |
| | 1:50 | 37.00 | 60.62 |
| | 1:50 | 36.54 | 59.68 |
| | 1:50 | 35.77 | 59.28 |
| | 1:50 | 36.44 | 60.01 |
| | 1:50 | 36.60 | 59.56 |
| | 1:51 | 36.60 | 59.62 |
| | 1:51 | 35.82 | 58.66 |
| | 1:51 | 35.99 | 59.37 |
| | 1:51 | 39.22 | 59.78 |
| | 1:51 | 35.53 | 59.21 |
| | 1:51 | 36.38 | 58.67 |
| | 1:52 | 36.29 | 59.69 |
| | 1:52 | 38.37 | 60.03 |
| | 1:52 | 40.65 | 59.77 |
| | 1:52 | 40.79 | 59.95 |
| | 1:52 | 40.66 | 60.12 |
| | 1:52 | 39.32 | 59.62 |
| | 1:53 | 39.12 | 59.39 |
| | 1:53 | 37.95 | 59.23 |
| | 1:53 | 37.56 | 59.36 |
| | 1:53 | 37.32 | 59.27 |
| | 1:53 | 37.74 | 60.21 |
| | 1:53 | 38.24 | 60.66 |
| | 1:54 | 39.41 | 60.71 |
| | 1:54 | 36.55 | 60.36 |
| | 1:54 | 36.03 | 59.40 |
| | 1:54 | 36.75 | 59.52 |
| | 1:54 | 37.21 | 60.13 |
| | 1:54 | 36.61 | 59.75 |
| | 1:55 | 40.09 | 60.07 |
| | 1:55 | 37.81 | 60.01 |
| | 1:55 | 36.83 | 59.41 |
| | 1:55 | 38.06 | 59.39 |
| | 1:55 | 34.97 | 59.68 |
| | 1:55 | 36.13 | 59.68 |
| | 1:56 | 34.79 | 59.33 |
| | 1:56 | 35.26 | 59.37 |
| | 1:56 | 35.61 | 59.50 |
| | 1:56 | 35.20 | 58.44 |
| | 1:56 | 35.49 | 58.53 |
| | 1:56 | 35.94 | 59.47 |
| | 1:57 | 35.54 | 60.01 |
| | 1:57 | 35.42 | 59.62 |
| | 1:57 | 35.40 | 59.65 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 1:57 | 35.62 | 59.51 |
| | 1:57 | 36.39 | 59.36 |
| | 1:57 | 37.65 | 59.62 |
| | 1:58 | 34.20 | 59.28 |
| | 1:58 | 34.53 | 59.13 |
| | 1:58 | 34.96 | 59.32 |
| | 1:58 | 37.58 | 59.41 |
| | 1:58 | 37.77 | 59.65 |
| | 1:58 | 34.99 | 59.22 |
| | 1:59 | 34.26 | 58.76 |
| | 1:59 | 34.09 | 59.40 |
| | 1:59 | 35.72 | 59.37 |
| | 1:59 | 35.35 | 59.25 |
| | 1:59 | 35.04 | 58.68 |
| | 1:59 | 35.41 | 58.98 |
| | 2:00 | 35.51 | 59.48 |
| | 2:00 | 37.61 | 59.95 |
| | 2:00 | 35.25 | 58.85 |
| | 2:00 | 33.81 | 58.45 |
| | 2:00 | 34.69 | 59.25 |
| | 2:00 | 34.21 | 59.07 |
| | 2:01 | 35.37 | 58.84 |
| | 2:01 | 35.02 | 59.11 |
| | 2:01 | 33.60 | 59.17 |
| | 2:01 | 34.67 | 59.16 |
| | 2:01 | 35.84 | 60.11 |
| | 2:01 | 34.87 | 59.68 |
| | 2:02 | 35.81 | 59.46 |
| | 2:02 | 34.19 | 59.52 |
| | 2:02 | 33.92 | 59.78 |
| | 2:02 | 34.79 | 60.17 |
| | 2:02 | 34.29 | 59.11 |
| | 2:02 | 34.26 | 59.63 |
| | 2:03 | 36.01 | 61.07 |
| | 2:03 | 37.03 | 59.00 |
| | 2:03 | 35.62 | 58.54 |
| | 2:03 | 35.55 | 59.90 |
| | 2:03 | 37.52 | 59.97 |
| | 2:03 | 35.40 | 59.84 |
| | 2:04 | 36.35 | 60.03 |
| | 2:04 | 38.44 | 60.34 |
| | 2:04 | 36.05 | 59.48 |
| | 2:04 | 35.35 | 59.42 |
| | 2:04 | 34.63 | 59.75 |
| | 2:04 | 35.31 | 59.30 |
| | 2:05 | 34.41 | 59.39 |
| | 2:05 | 35.74 | 59.30 |
| | 2:05 | 36.30 | 58.79 |
| | 2:05 | 37.03 | 59.40 |
| | 2:05 | 35.28 | 59.38 |
| | 2:05 | 35.43 | 58.78 |
| | 2:06 | 35.07 | 58.78 |
| | 2:06 | 33.84 | 59.26 |
| | 2:06 | 35.61 | 58.71 |
| | 2:06 | 35.47 | 59.20 |
| | 2:06 | 36.51 | 59.12 |
| | 2:06 | 35.74 | 59.52 |
| | 2:07 | 36.04 | 59.23 |
| | 2:07 | 37.41 | 58.97 |
| | 2:07 | 37.05 | 59.21 |
| | 2:07 | 36.98 | 59.08 |
| | 2:07 | 36.85 | 59.12 |
| | 2:07 | 35.21 | 58.62 |
| | 2:08 | 35.63 | 59.12 |
| | 2:08 | 35.13 | 58.18 |
| | 2:08 | 35.90 | 58.76 |
| | 2:08 | 34.72 | 59.38 |
| | 2:08 | 34.57 | 58.67 |
| | 2:08 | 34.59 | 59.33 |
| | 2:09 | 35.17 | 59.38 |
| | 2:09 | 38.55 | 60.39 |
| | 2:09 | 39.29 | 59.74 |
| | 2:09 | 37.69 | 60.20 |
| | 2:09 | 37.69 | 59.70 |

| Site 1 | | 4/9/21 | |
|---|---|---|---|
| Time | | LAeq | LCeq |
| | 2:09 | 36.07 | 58.33 |
| | 2:10 | 34.83 | 59.15 |
| | 2:10 | 34.21 | 59.00 |
| | 2:10 | 33.81 | 59.16 |
| | 2:10 | 34.70 | 58.48 |
| | 2:10 | 33.96 | 59.66 |
| | 2:10 | 36.80 | 59.89 |
| | 2:11 | 36.29 | 59.31 |
| | 2:11 | 35.97 | 59.61 |
| | 2:11 | 37.32 | 59.43 |
| | 2:11 | 35.59 | 59.14 |
| | 2:11 | 35.32 | 59.82 |
| | 2:11 | 35.89 | 59.56 |
| | 2:12 | 37.69 | 59.28 |
| | 2:12 | 36.21 | 58.30 |
| | 2:12 | 35.42 | 57.84 |
| | 2:12 | 36.55 | 59.45 |
| | 2:12 | 35.49 | 58.98 |
| | 2:12 | 36.88 | 60.08 |
| | 2:13 | 36.70 | 59.32 |
| | 2:13 | 37.37 | 59.70 |
| | 2:13 | 38.65 | 60.11 |
| | 2:13 | 35.19 | 59.79 |
| | 2:13 | 36.09 | 59.40 |
| | 2:13 | 34.57 | 58.61 |
| | 2:14 | 34.12 | 58.34 |
| | 2:14 | 35.13 | 58.24 |
| | 2:14 | 34.68 | 58.54 |
| | 2:14 | 34.51 | 59.10 |
| | 2:14 | 36.54 | 60.09 |
| | 2:14 | 37.19 | 59.53 |
| | 2:15 | 36.67 | 59.40 |
| | 2:15 | 36.37 | 58.77 |
| | 2:15 | 37.85 | 59.94 |
| | 2:15 | 35.80 | 58.91 |
| | 2:15 | 34.14 | 58.48 |
| | 2:15 | 36.10 | 59.15 |
| | 2:16 | 36.08 | 59.57 |
| | 2:16 | 37.10 | 59.50 |
| | 2:16 | 38.03 | 59.22 |
| | 2:16 | 38.87 | 59.57 |
| | 2:16 | 41.96 | 59.95 |
| | 2:16 | 35.91 | 59.46 |
| | 2:17 | 35.85 | 60.24 |
| | 2:17 | 36.16 | 59.83 |
| | 2:17 | 36.15 | 59.82 |
| | 2:17 | 38.23 | 59.89 |
| | 2:17 | 36.79 | 59.18 |
| | 2:17 | 35.65 | 59.34 |
| | 2:18 | 36.85 | 59.22 |
| | 2:18 | 37.32 | 59.32 |
| | 2:18 | 36.14 | 58.91 |
| | 2:18 | 38.14 | 59.21 |
| 4/9/2021 | 2:18 | 39.27 | 59.35 |
| | | | |
| maximum | | 41.96 | 61.26 |
| minimun | | 33.60 | 57.63 |
| average | | 37.00 | 59.66 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 4/10/2021 7:49 | 49.10 | 60.64 |
| 7:50 | 42.08 | 60.42 |
| 7:50 | 51.10 | 61.17 |
| 7:50 | 44.94 | 60.05 |
| 7:50 | 42.62 | 59.82 |
| 7:51 | 42.80 | 60.40 |
| 7:51 | 41.64 | 59.38 |
| 7:51 | 41.69 | 59.71 |
| 7:51 | 43.14 | 59.87 |
| 7:51 | 45.69 | 60.73 |
| 7:51 | 45.41 | 61.13 |
| 7:52 | 43.22 | 60.61 |
| 7:52 | 43.39 | 60.08 |
| 7:52 | 45.61 | 59.86 |
| 7:52 | 43.62 | 60.30 |
| 7:52 | 43.62 | 60.32 |
| 7:52 | 41.63 | 60.13 |
| 7:53 | 42.04 | 61.36 |
| 7:53 | 41.33 | 59.83 |
| 7:53 | 40.98 | 60.54 |
| 7:53 | 41.94 | 59.92 |
| 7:53 | 42.40 | 60.04 |
| 7:53 | 41.11 | 60.47 |
| 7:54 | 42.20 | 60.28 |
| 7:54 | 41.71 | 60.20 |
| 7:54 | 42.04 | 60.63 |
| 7:54 | 41.31 | 59.35 |
| 7:54 | 40.50 | 59.74 |
| 7:54 | 40.56 | 59.98 |
| 7:55 | 43.24 | 60.65 |
| 7:55 | 41.47 | 60.34 |
| 7:55 | 41.17 | 59.90 |
| 7:55 | 42.37 | 60.64 |
| 7:55 | 41.45 | 59.62 |
| 7:55 | 41.89 | 59.86 |
| 7:56 | 42.43 | 59.89 |
| 7:56 | 43.05 | 61.04 |
| 7:56 | 43.21 | 60.76 |
| 7:56 | 43.85 | 59.91 |
| 7:56 | 42.26 | 61.08 |
| 7:56 | 43.25 | 60.92 |
| 7:57 | 43.83 | 60.65 |
| 7:57 | 42.48 | 60.33 |
| 7:57 | 42.28 | 60.65 |
| 7:57 | 42.62 | 60.37 |
| 7:57 | 42.53 | 61.20 |
| 7:57 | 42.50 | 60.31 |
| 7:58 | 42.33 | 60.08 |
| 7:58 | 43.70 | 60.06 |
| 7:58 | 45.52 | 60.80 |
| 7:58 | 47.55 | 62.06 |
| 7:59 | 44.77 | 61.98 |
| 8:00 | 41.83 | 60.58 |
| 8:00 | 43.39 | 60.58 |
| 8:00 | 42.97 | 59.95 |
| 8:00 | 44.11 | 60.46 |
| 8:00 | 42.40 | 61.11 |
| 8:00 | 43.30 | 59.94 |
| 8:01 | 43.54 | 60.24 |
| 8:01 | 45.69 | 60.06 |
| 8:01 | 45.11 | 59.88 |
| 8:01 | 46.53 | 59.77 |
| 8:01 | 45.18 | 60.11 |
| 8:01 | 45.89 | 60.98 |
| 8:02 | 43.89 | 60.68 |
| 8:02 | 43.51 | 60.48 |
| 8:02 | 43.56 | 60.85 |
| 8:02 | 45.46 | 60.87 |
| 8:02 | 43.76 | 60.18 |
| 8:02 | 47.20 | 60.16 |
| 8:03 | 47.13 | 60.65 |
| 8:03 | 46.36 | 61.44 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 8:03 | 46.20 | 62.37 |
| 8:03 | 47.40 | 61.94 |
| 8:03 | 44.30 | 61.29 |
| 8:03 | 44.28 | 61.07 |
| 8:04 | 45.14 | 60.63 |
| 8:04 | 43.69 | 60.45 |
| 8:04 | 43.79 | 60.96 |
| 8:04 | 44.49 | 61.41 |
| 8:04 | 45.04 | 64.72 |
| 8:04 | 42.91 | 60.90 |
| 8:05 | 43.33 | 61.35 |
| 8:05 | 38.92 | 60.98 |
| 8:05 | 42.35 | 61.66 |
| 8:05 | 42.47 | 61.24 |
| 8:05 | 42.14 | 60.49 |
| 8:05 | 41.94 | 61.09 |
| 8:06 | 42.44 | 61.38 |
| 8:06 | 45.47 | 62.67 |
| 8:06 | 48.68 | 63.70 |
| 8:06 | 46.31 | 62.25 |
| 8:06 | 43.86 | 61.29 |
| 8:06 | 42.41 | 60.98 |
| 8:07 | 42.36 | 61.25 |
| 8:07 | 42.16 | 60.78 |
| 8:07 | 42.37 | 60.99 |
| 8:07 | 44.18 | 61.36 |
| 8:07 | 42.89 | 61.44 |
| 8:07 | 44.19 | 61.16 |
| 8:08 | 42.53 | 61.39 |
| 8:08 | 43.09 | 61.67 |
| 8:08 | 47.13 | 61.70 |
| 8:08 | 44.07 | 62.70 |
| 8:08 | 42.70 | 62.57 |
| 8:08 | 42.74 | 61.31 |
| 8:09 | 41.86 | 60.89 |
| 8:09 | 41.86 | 60.66 |
| 8:09 | 44.58 | 62.21 |
| 8:09 | 45.13 | 62.42 |
| 8:09 | 45.58 | 61.22 |
| 8:09 | 48.20 | 61.10 |
| 8:10 | 45.61 | 61.81 |
| 8:10 | 44.35 | 62.18 |
| 8:10 | 43.98 | 61.44 |
| 8:10 | 47.01 | 61.35 |
| 8:10 | 48.07 | 61.84 |
| 8:10 | 45.72 | 60.81 |
| 8:11 | 45.01 | 61.83 |
| 8:11 | 46.07 | 61.41 |
| 8:11 | 44.73 | 61.06 |
| 8:11 | 44.91 | 61.75 |
| 8:11 | 44.09 | 61.39 |
| 8:11 | 44.60 | 61.11 |
| 8:12 | 43.28 | 61.44 |
| 8:12 | 42.24 | 61.60 |
| 8:12 | 41.40 | 60.97 |
| 8:12 | 41.54 | 61.38 |
| 8:12 | 41.38 | 61.85 |
| 8:12 | 41.29 | 61.60 |
| 8:13 | 40.16 | 60.72 |
| 8:13 | 41.17 | 61.25 |
| 8:13 | 41.88 | 61.81 |
| 8:13 | 42.10 | 61.12 |
| 8:13 | 41.50 | 61.07 |
| 8:13 | 40.95 | 61.77 |
| 8:14 | 41.16 | 61.57 |
| 8:14 | 42.24 | 61.57 |
| 8:14 | 42.06 | 61.22 |
| 8:14 | 42.30 | 61.22 |
| 8:14 | 42.47 | 61.19 |
| 8:14 | 42.46 | 60.97 |
| 8:15 | 41.98 | 60.75 |
| 8:15 | 41.38 | 61.42 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 8:15 | 43.51 | 60.94 |
| 8:15 | 45.96 | 61.24 |
| 8:15 | 46.84 | 61.46 |
| 8:15 | 44.06 | 61.92 |
| 8:16 | 42.83 | 60.87 |
| 8:16 | 41.95 | 60.98 |
| 8:16 | 43.98 | 60.50 |
| 8:16 | 43.14 | 60.73 |
| 8:16 | 41.93 | 60.86 |
| 8:16 | 44.21 | 61.58 |
| 8:17 | 44.37 | 61.03 |
| 8:17 | 44.55 | 61.10 |
| 8:17 | 45.25 | 60.40 |
| 8:17 | 43.58 | 61.48 |
| 8:17 | 45.40 | 61.29 |
| 8:17 | 43.93 | 61.91 |
| 8:18 | 45.24 | 61.66 |
| 8:18 | 43.63 | 60.63 |
| 8:18 | 44.71 | 61.08 |
| 8:18 | 42.67 | 60.07 |
| 8:18 | 42.73 | 60.65 |
| 8:18 | 41.53 | 60.96 |
| 8:19 | 42.53 | 60.98 |
| 8:19 | 41.19 | 61.39 |
| 8:19 | 40.59 | 60.04 |
| 8:19 | 40.17 | 60.88 |
| 8:19 | 39.98 | 60.66 |
| 8:19 | 40.43 | 61.06 |
| 8:20 | 40.27 | 60.25 |
| 8:20 | 39.34 | 60.42 |
| 8:20 | 38.89 | 60.21 |
| 8:20 | 41.13 | 61.23 |
| 8:20 | 40.68 | 60.56 |
| 8:20 | 42.73 | 60.81 |
| 8:21 | 44.08 | 60.51 |
| 8:21 | 46.40 | 60.76 |
| 8:21 | 42.80 | 60.81 |
| 8:21 | 39.26 | 60.41 |
| 8:21 | 39.69 | 59.94 |
| 8:21 | 39.45 | 60.68 |
| 8:22 | 39.28 | 59.82 |
| 8:22 | 40.15 | 59.59 |
| 8:22 | 40.44 | 60.54 |
| 8:22 | 43.44 | 61.03 |
| 8:22 | 40.93 | 60.25 |
| 8:22 | 39.89 | 60.91 |
| 8:23 | 41.10 | 60.81 |
| 8:23 | 43.01 | 60.36 |
| 8:23 | 42.73 | 60.68 |
| 8:23 | 40.11 | 60.15 |
| 8:23 | 37.95 | 60.51 |
| 8:23 | 42.40 | 60.42 |
| 8:24 | 42.33 | 60.56 |
| 8:24 | 41.73 | 61.30 |
| 8:24 | 41.63 | 61.11 |
| 8:24 | 41.83 | 60.38 |
| 8:24 | 43.53 | 60.67 |
| 8:24 | 42.11 | 60.44 |
| 8:25 | 41.16 | 60.27 |
| 8:25 | 40.43 | 60.11 |
| 8:25 | 39.58 | 60.57 |
| 8:25 | 40.00 | 61.08 |
| 8:25 | 40.24 | 61.09 |
| 8:25 | 41.63 | 60.52 |
| 8:26 | 42.97 | 61.39 |
| 8:26 | 43.46 | 61.01 |
| 8:26 | 43.81 | 60.79 |
| 8:26 | 42.82 | 60.11 |
| 8:26 | 43.14 | 60.71 |
| 8:26 | 43.33 | 60.68 |
| 8:27 | 42.22 | 60.08 |
| 8:27 | 42.52 | 59.97 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 8:27 | 42.88 | 60.52 |
| 8:27 | 45.77 | 60.26 |
| 8:27 | 42.88 | 60.33 |
| 8:27 | 40.72 | 60.02 |
| 8:28 | 41.20 | 59.35 |
| 8:28 | 42.70 | 60.21 |
| 8:28 | 41.23 | 60.32 |
| 8:28 | 40.06 | 60.26 |
| 8:28 | 40.63 | 60.73 |
| 8:28 | 41.77 | 60.90 |
| 8:29 | 40.19 | 61.16 |
| 8:29 | 40.24 | 60.36 |
| 8:29 | 40.11 | 60.18 |
| 8:29 | 40.70 | 60.52 |
| 8:29 | 40.27 | 60.26 |
| 8:29 | 41.42 | 59.64 |
| 8:30 | 41.87 | 59.63 |
| 8:30 | 41.09 | 61.17 |
| 8:30 | 40.78 | 60.16 |
| 8:30 | 41.81 | 60.08 |
| 8:30 | 41.25 | 60.71 |
| 8:30 | 40.48 | 59.84 |
| 8:31 | 39.70 | 59.44 |
| 8:31 | 41.30 | 58.56 |
| 8:31 | 41.80 | 59.89 |
| 8:31 | 41.77 | 60.00 |
| 8:31 | 40.18 | 60.20 |
| 8:31 | 41.14 | 60.91 |
| 8:32 | 41.22 | 60.31 |
| 8:32 | 40.27 | 59.41 |
| 8:32 | 40.36 | 60.16 |
| 8:32 | 39.90 | 60.09 |
| 8:32 | 40.05 | 59.94 |
| 8:32 | 38.91 | 59.38 |
| 8:33 | 40.46 | 60.56 |
| 8:33 | 41.30 | 60.71 |
| 8:33 | 42.42 | 59.87 |
| 8:33 | 41.68 | 59.64 |
| 8:33 | 40.65 | 60.19 |
| 8:33 | 38.78 | 61.39 |
| 8:34 | 39.64 | 59.82 |
| 8:34 | 40.13 | 59.26 |
| 8:34 | 40.05 | 59.83 |
| 8:34 | 39.97 | 59.40 |
| 8:34 | 40.14 | 59.77 |
| 8:34 | 42.04 | 59.65 |
| 8:35 | 41.17 | 59.93 |
| 8:35 | 40.84 | 59.73 |
| 8:35 | 39.05 | 59.12 |
| 8:35 | 40.73 | 59.41 |
| 8:35 | 40.21 | 60.45 |
| 8:35 | 41.27 | 60.00 |
| 8:36 | 39.55 | 59.62 |
| 8:36 | 38.84 | 59.01 |
| 8:36 | 39.40 | 60.46 |
| 8:36 | 41.37 | 59.89 |
| 8:36 | 41.08 | 60.76 |
| 8:36 | 40.15 | 60.34 |
| 8:37 | 40.69 | 59.17 |
| 8:37 | 40.15 | 59.91 |
| 8:37 | 41.39 | 59.73 |
| 8:37 | 40.61 | 60.15 |
| 8:37 | 41.03 | 59.20 |
| 8:37 | 43.11 | 59.69 |
| 8:38 | 39.79 | 59.69 |
| 8:38 | 40.54 | 60.88 |
| 8:38 | 39.47 | 59.30 |
| 8:38 | 41.55 | 60.15 |
| 8:38 | 42.33 | 60.41 |
| 8:38 | 42.73 | 59.35 |
| 8:39 | 44.85 | 60.16 |
| 8:39 | 43.66 | 59.43 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 8:39 | 44.87 | 59.27 |
| 8:39 | 45.75 | 59.00 |
| 8:39 | 45.21 | 59.47 |
| 8:39 | 43.95 | 59.47 |
| 8:40 | 42.42 | 59.47 |
| 8:40 | 43.30 | 59.71 |
| 8:40 | 42.99 | 59.35 |
| 8:40 | 42.12 | 58.79 |
| 8:40 | 42.38 | 58.99 |
| 8:40 | 41.49 | 58.94 |
| 8:41 | 41.66 | 59.47 |
| 8:41 | 40.99 | 59.23 |
| 8:41 | 42.03 | 59.23 |
| 8:41 | 42.38 | 58.59 |
| 8:41 | 50.89 | 59.53 |
| 8:41 | 46.70 | 59.59 |
| 8:42 | 41.28 | 58.65 |
| 8:42 | 41.64 | 59.02 |
| 8:42 | 41.69 | 59.08 |
| 8:42 | 41.74 | 58.08 |
| 8:42 | 40.68 | 58.11 |
| 8:42 | 39.70 | 57.90 |
| 8:43 | 39.98 | 58.73 |
| 8:43 | 42.88 | 59.07 |
| 8:43 | 39.99 | 58.87 |
| 8:43 | 39.91 | 58.96 |
| 8:43 | 42.09 | 59.21 |
| 8:43 | 40.52 | 58.00 |
| 8:44 | 39.83 | 57.98 |
| 8:44 | 39.64 | 59.14 |
| 8:44 | 38.75 | 58.89 |
| 8:44 | 39.56 | 58.58 |
| 8:44 | 39.82 | 58.66 |
| 8:44 | 39.91 | 58.55 |
| 8:45 | 38.88 | 58.30 |
| 8:45 | 39.56 | 58.43 |
| 8:45 | 41.09 | 58.89 |
| 8:45 | 39.84 | 59.00 |
| 8:45 | 41.07 | 59.02 |
| 8:45 | 40.50 | 58.32 |
| 8:46 | 41.26 | 58.06 |
| 8:46 | 41.28 | 57.55 |
| 8:46 | 40.16 | 58.22 |
| 8:46 | 40.77 | 58.06 |
| 8:46 | 42.07 | 59.15 |
| 8:46 | 42.31 | 59.40 |
| 8:47 | 43.36 | 59.86 |
| 8:47 | 43.46 | 58.94 |
| 8:47 | 43.82 | 58.64 |
| 8:47 | 44.71 | 58.77 |
| 8:47 | 44.76 | 58.52 |
| 8:47 | 41.04 | 59.21 |
| 8:48 | 41.64 | 61.64 |
| 8:48 | 40.67 | 60.11 |
| 8:48 | 42.11 | 58.58 |
| 8:48 | 37.81 | 57.69 |
| 8:48 | 41.20 | 58.55 |
| 8:48 | 43.44 | 58.25 |
| 8:49 | 41.12 | 58.07 |
| 8:49 | 40.31 | 58.74 |
| 8:49 | 40.72 | 59.07 |
| 8:49 | 39.48 | 58.62 |
| 8:49 | 46.11 | 58.16 |
| 8:49 | 43.73 | 58.05 |
| 8:50 | 43.94 | 57.29 |
| 8:50 | 39.63 | 57.97 |
| 8:50 | 40.61 | 57.74 |
| 8:50 | 40.95 | 58.38 |
| 8:50 | 40.31 | 58.97 |
| 8:50 | 41.24 | 58.63 |
| 8:51 | 41.27 | 58.13 |
| 8:51 | 42.98 | 58.98 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 8:51 | 41.82 | 58.62 |
| 8:51 | 41.71 | 58.52 |
| 8:51 | 39.26 | 57.86 |
| 8:51 | 39.91 | 58.04 |
| 8:52 | 38.61 | 58.24 |
| 8:52 | 37.56 | 58.79 |
| 8:52 | 37.92 | 58.34 |
| 8:52 | 39.07 | 57.80 |
| 8:52 | 40.19 | 58.28 |
| 8:52 | 41.00 | 58.81 |
| 8:53 | 39.93 | 58.01 |
| 8:53 | 37.65 | 58.17 |
| 8:53 | 40.21 | 58.92 |
| 8:53 | 38.20 | 60.94 |
| 8:53 | 35.35 | 59.05 |
| 8:53 | 36.93 | 58.96 |
| 8:54 | 35.70 | 59.27 |
| 8:54 | 38.02 | 59.33 |
| 8:54 | 41.93 | 58.50 |
| 8:54 | 38.16 | 59.56 |
| 8:54 | 40.52 | 59.49 |
| 8:54 | 43.44 | 58.23 |
| 8:55 | 39.51 | 58.24 |
| 8:55 | 38.54 | 59.23 |
| 8:55 | 39.22 | 58.34 |
| 8:55 | 37.63 | 57.51 |
| 8:55 | 38.91 | 58.58 |
| 8:55 | 40.04 | 57.67 |
| 8:56 | 40.92 | 58.17 |
| 8:56 | 39.49 | 57.98 |
| 8:56 | 38.75 | 59.05 |
| 8:56 | 39.51 | 57.25 |
| 8:56 | 38.79 | 58.21 |
| 8:56 | 38.22 | 58.24 |
| 8:57 | 36.49 | 58.04 |
| 8:57 | 37.80 | 58.08 |
| 8:57 | 39.39 | 58.93 |
| 8:57 | 37.54 | 58.15 |
| 8:57 | 36.54 | 58.45 |
| 8:57 | 36.53 | 58.81 |
| 8:58 | 38.85 | 58.59 |
| 8:58 | 37.11 | 57.99 |
| 8:58 | 37.51 | 58.44 |
| 8:58 | 38.02 | 58.29 |
| 8:58 | 38.05 | 57.92 |
| 8:58 | 40.46 | 57.89 |
| 8:59 | 38.73 | 57.42 |
| 8:59 | 37.40 | 57.91 |
| 8:59 | 38.50 | 57.99 |
| 8:59 | 37.99 | 57.63 |
| 8:59 | 37.97 | 58.48 |
| 8:59 | 39.88 | 58.41 |
| 9:00 | 39.18 | 58.66 |
| 9:00 | 39.34 | 58.59 |
| 9:00 | 40.90 | 57.47 |
| 9:00 | 38.03 | 58.24 |
| 9:00 | 39.14 | 57.76 |
| 9:00 | 41.17 | 58.45 |
| 9:01 | 40.58 | 57.68 |
| 9:01 | 39.68 | 58.29 |
| 9:01 | 41.68 | 58.36 |
| 9:01 | 39.79 | 57.90 |
| 9:01 | 38.29 | 57.39 |
| 9:01 | 38.74 | 57.54 |
| 9:02 | 41.37 | 57.47 |
| 9:02 | 39.30 | 56.85 |
| 9:02 | 37.44 | 57.40 |
| 9:02 | 39.03 | 58.07 |
| 9:02 | 41.29 | 58.29 |
| 9:02 | 39.59 | 58.33 |
| 9:03 | 36.78 | 59.29 |
| 9:03 | 39.61 | 58.90 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 9:03 | 38.43 | 58.27 |
| 9:03 | 40.54 | 57.87 |
| 9:03 | 42.89 | 57.01 |
| 9:03 | 40.95 | 57.96 |
| 9:04 | 41.48 | 57.91 |
| 9:04 | 39.99 | 59.38 |
| 9:04 | 40.89 | 59.12 |
| 9:04 | 38.85 | 59.39 |
| 9:04 | 38.30 | 59.47 |
| 9:04 | 37.26 | 58.52 |
| 9:05 | 37.72 | 58.65 |
| 9:05 | 37.82 | 58.83 |
| 9:05 | 39.33 | 57.94 |
| 9:05 | 39.46 | 57.50 |
| 9:05 | 42.79 | 58.08 |
| 9:05 | 48.24 | 57.79 |
| 9:06 | 48.46 | 57.67 |
| 9:06 | 37.77 | 57.88 |
| 9:06 | 39.50 | 57.80 |
| 9:06 | 35.84 | 58.40 |
| 9:06 | 37.74 | 57.65 |
| 9:06 | 40.87 | 58.13 |
| 9:07 | 41.01 | 57.45 |
| 9:07 | 37.75 | 57.89 |
| 9:07 | 40.84 | 57.69 |
| 9:07 | 41.16 | 57.99 |
| 9:07 | 42.03 | 58.74 |
| 9:07 | 38.34 | 58.11 |
| 9:08 | 39.34 | 59.66 |
| 9:08 | 39.66 | 58.69 |
| 9:08 | 39.26 | 58.26 |
| 9:08 | 38.98 | 57.81 |
| 9:08 | 39.73 | 57.30 |
| 9:08 | 37.99 | 57.50 |
| 9:09 | 37.95 | 57.75 |
| 9:09 | 40.63 | 58.71 |
| 9:09 | 38.72 | 57.80 |
| 9:09 | 36.09 | 58.27 |
| 9:09 | 36.32 | 57.62 |
| 9:09 | 35.70 | 58.80 |
| 9:10 | 37.00 | 58.71 |
| 9:10 | 36.69 | 57.42 |
| 9:10 | 35.44 | 58.96 |
| 9:10 | 37.09 | 58.22 |
| 9:10 | 37.52 | 58.67 |
| 9:10 | 37.22 | 57.63 |
| 9:11 | 37.37 | 58.19 |
| 9:11 | 36.62 | 57.35 |
| 9:11 | 38.59 | 57.80 |
| 9:11 | 39.62 | 59.11 |
| 9:11 | 40.86 | 59.25 |
| 9:11 | 38.96 | 57.88 |
| 9:12 | 37.82 | 58.08 |
| 9:12 | 37.73 | 58.00 |
| 9:12 | 39.60 | 57.88 |
| 9:12 | 41.17 | 58.30 |
| 9:12 | 42.85 | 57.95 |
| 9:12 | 44.02 | 58.82 |
| 9:13 | 44.34 | 58.69 |
| 9:13 | 42.46 | 58.88 |
| 9:13 | 41.53 | 59.13 |
| 9:13 | 41.34 | 58.41 |
| 9:13 | 41.31 | 58.16 |
| 9:13 | 39.54 | 57.83 |
| 9:14 | 39.29 | 57.26 |
| 9:14 | 39.94 | 56.97 |
| 9:14 | 42.42 | 57.96 |
| 9:14 | 43.54 | 58.53 |
| 9:14 | 43.12 | 57.50 |
| 9:14 | 43.11 | 58.31 |
| 9:15 | 41.22 | 57.71 |
| 9:15 | 40.53 | 58.34 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 9:15 | 41.06 | 57.58 |
| 9:15 | 42.25 | 57.07 |
| 9:15 | 40.43 | 58.39 |
| 9:15 | 39.91 | 59.30 |
| 9:16 | 42.10 | 60.98 |
| 9:16 | 39.54 | 58.61 |
| 9:16 | 38.88 | 58.61 |
| 9:16 | 39.61 | 58.91 |
| 9:16 | 39.27 | 58.39 |
| 9:16 | 40.51 | 57.59 |
| 9:17 | 40.08 | 56.42 |
| 9:17 | 40.90 | 56.68 |
| 9:17 | 38.90 | 57.80 |
| 9:17 | 39.26 | 58.36 |
| 9:17 | 49.19 | 58.14 |
| 9:17 | 39.93 | 58.25 |
| 9:18 | 38.59 | 59.01 |
| 9:18 | 39.97 | 57.65 |
| 9:18 | 39.23 | 57.12 |
| 9:18 | 37.38 | 57.80 |
| 9:18 | 38.23 | 57.46 |
| 9:18 | 39.70 | 56.93 |
| 9:19 | 38.91 | 57.29 |
| 9:19 | 40.32 | 58.06 |
| 9:19 | 40.55 | 58.94 |
| 9:19 | 41.41 | 58.40 |
| 9:19 | 40.13 | 57.13 |
| 9:19 | 39.59 | 58.24 |
| 9:20 | 39.14 | 58.55 |
| 9:20 | 38.74 | 58.29 |
| 9:20 | 37.48 | 58.10 |
| 9:20 | 40.79 | 59.77 |
| 9:20 | 41.18 | 57.97 |
| 9:20 | 42.18 | 61.65 |
| 9:21 | 40.88 | 64.67 |
| 9:21 | 41.04 | 58.64 |
| 9:21 | 40.55 | 59.28 |
| 9:21 | 40.07 | 57.79 |
| 9:21 | 37.73 | 57.65 |
| 9:21 | 36.30 | 58.82 |
| 9:22 | 36.15 | 58.15 |
| 9:22 | 36.92 | 58.84 |
| 9:22 | 38.14 | 58.29 |
| 9:22 | 42.35 | 58.91 |
| 9:22 | 40.16 | 59.70 |
| 9:22 | 40.28 | 58.26 |
| 9:23 | 40.50 | 58.06 |
| 9:23 | 39.28 | 57.80 |
| 9:23 | 43.83 | 61.96 |
| 9:23 | 41.18 | 59.33 |
| 9:23 | 39.84 | 59.16 |
| 9:23 | 40.56 | 59.12 |
| 9:24 | 41.28 | 58.69 |
| 9:24 | 41.85 | 58.39 |
| 9:24 | 40.59 | 58.67 |
| 9:24 | 41.49 | 58.67 |
| 9:24 | 41.29 | 60.22 |
| 9:24 | 42.58 | 59.89 |
| 9:25 | 40.92 | 58.97 |
| 9:25 | 40.62 | 57.56 |
| 9:25 | 40.81 | 58.25 |
| 9:25 | 42.27 | 58.46 |
| 9:25 | 40.39 | 57.46 |
| 9:25 | 39.99 | 56.62 |
| 9:26 | 41.47 | 57.81 |
| 9:26 | 41.56 | 57.69 |
| 9:26 | 41.92 | 57.56 |
| 9:26 | 39.90 | 57.10 |
| 9:26 | 39.57 | 57.46 |
| 9:26 | 40.44 | 57.83 |
| 9:27 | 40.39 | 58.48 |
| 9:27 | 40.79 | 58.01 |

| Site 1 | 4/10/2021 | |
|---|---|---|
| | LAeq | LCeq |
| 9:27 | 41.16 | 58.19 |
| 9:27 | 39.19 | 58.35 |
| 9:27 | 38.70 | 58.15 |
| 9:27 | 45.46 | 57.99 |
| 9:28 | 40.75 | 58.76 |
| 9:28 | 40.44 | 58.03 |
| 9:28 | 40.69 | 59.23 |
| 9:28 | 46.34 | 59.49 |
| 9:28 | 39.18 | 58.81 |
| 9:28 | 42.08 | 58.74 |
| 9:29 | 42.78 | 59.11 |
| 9:29 | 38.61 | 59.03 |
| 9:29 | 38.00 | 59.90 |
| 9:29 | 38.74 | 58.51 |
| 9:29 | 41.04 | 58.34 |
| 9:29 | 39.14 | 59.26 |
| 9:30 | 39.28 | 59.19 |
| 9:30 | 37.69 | 58.06 |
| 9:30 | 37.85 | 58.00 |
| 9:30 | 39.47 | 60.70 |
| 9:30 | 40.32 | 60.71 |
| 9:30 | 39.63 | 57.96 |
| 9:31 | 41.33 | 59.92 |
| 9:31 | 42.47 | 59.32 |
| 9:31 | 42.22 | 58.64 |
| 9:31 | 41.90 | 59.55 |
| 9:31 | 39.99 | 58.53 |
| 9:31 | 44.40 | 59.70 |
| 9:32 | 43.51 | 60.08 |
| 9:32 | 40.63 | 59.16 |
| 9:32 | 38.93 | 59.83 |
| 9:32 | 41.27 | 58.13 |
| 9:32 | 39.87 | 58.09 |
| 9:32 | 39.71 | 58.69 |
| 9:33 | 39.99 | 58.72 |
| 9:33 | 40.67 | 58.60 |
| 9:33 | 39.98 | 58.09 |
| 9:33 | 40.63 | 58.41 |
| 9:33 | 45.47 | 57.06 |
| 9:33 | 42.63 | 57.25 |
| 9:34 | 40.60 | 57.93 |
| 9:34 | 41.39 | 59.62 |
| 9:34 | 43.13 | 60.04 |
| 9:34 | 41.45 | 59.54 |
| 9:34 | 41.31 | 58.03 |
| 9:34 | 43.41 | 59.40 |
| 9:35 | 42.33 | 58.21 |
| 9:35 | 40.70 | 59.27 |
| 9:35 | 40.66 | 59.23 |
| 9:35 | 41.50 | 58.48 |
| 9:35 | 41.75 | 58.26 |
| 9:35 | 41.53 | 59.96 |
| 9:36 | 41.93 | 58.99 |
| 9:36 | 41.11 | 57.89 |
| 9:36 | 39.84 | 57.60 |
| 9:36 | 40.37 | 58.66 |
| 9:36 | 41.21 | 59.95 |
| 9:36 | 42.88 | 60.20 |
| 9:37 | 41.30 | 59.85 |
| 9:37 | 39.63 | 58.87 |
| 9:37 | 39.33 | 57.89 |
| 9:37 | 44.40 | 58.22 |
| 9:37 | 42.90 | 58.81 |
| 9:37 | 40.12 | 60.56 |
| 9:38 | 39.03 | 59.49 |
| 9:38 | 38.89 | 59.01 |
| 9:38 | 38.23 | 58.44 |
| 9:38 | 40.13 | 57.91 |
| 9:38 | 39.69 | 58.95 |
| 9:38 | 40.40 | 58.76 |
| 9:39 | 39.75 | 57.47 |
| 9:39 | 41.33 | 58.38 |

| Site 1 | | 4/10/2021 | |
|---|---|---|---|
| | | LAeq | LCeq |
| | 9:39 | 39.23 | 57.62 |
| | 9:39 | 39.89 | 57.47 |
| | 9:39 | 40.10 | 57.52 |
| | 9:39 | 41.36 | 57.21 |
| | 9:40 | 40.83 | 58.74 |
| | 9:40 | 40.86 | 58.46 |
| | 9:40 | 40.29 | 60.53 |
| | 9:40 | 41.59 | 58.69 |
| | 9:40 | 41.59 | 58.36 |
| | 9:40 | 40.82 | 57.97 |
| | 9:41 | 42.04 | 58.72 |
| | 9:41 | 41.05 | 59.47 |
| | 9:41 | 39.75 | 59.85 |
| | 9:41 | 39.17 | 59.52 |
| | 9:41 | 39.56 | 57.67 |
| | 9:41 | 41.84 | 58.48 |
| | 9:42 | 40.91 | 58.42 |
| | 9:42 | 40.17 | 58.10 |
| | 9:42 | 39.77 | 58.20 |
| | 9:42 | 39.31 | 58.31 |
| | 9:42 | 40.72 | 57.69 |
| | 9:42 | 42.60 | 58.65 |
| | 9:43 | 41.20 | 60.04 |
| | 9:43 | 41.71 | 57.78 |
| | 9:43 | 41.03 | 58.02 |
| | 9:43 | 41.56 | 58.60 |
| | 9:43 | 41.68 | 59.96 |
| | 9:43 | 41.54 | 58.65 |
| | 9:44 | 41.62 | 60.08 |
| | 9:44 | 41.65 | 58.98 |
| | 9:44 | 41.53 | 58.00 |
| | 9:44 | 39.22 | 59.29 |
| | 9:44 | 40.83 | 58.71 |
| | 9:44 | 41.14 | 60.21 |
| | 9:45 | 42.74 | 59.80 |
| | 9:45 | 44.15 | 61.74 |
| | 9:46 | 42.23 | 59.67 |
| | 9:46 | 45.11 | 63.45 |
| | 9:46 | 42.85 | 61.62 |
| | 9:46 | 39.58 | 57.82 |
| | 9:46 | 40.94 | 58.04 |
| | 9:46 | 39.09 | 57.92 |
| | 9:47 | 39.13 | 57.34 |
| | 9:47 | 39.65 | 57.42 |
| | 9:47 | 40.66 | 57.23 |
| | 9:47 | 42.71 | 57.54 |
| | 9:47 | 42.47 | 58.30 |
| | 9:47 | 43.47 | 57.22 |
| | 9:48 | 44.17 | 58.06 |
| | 9:48 | 43.07 | 56.65 |
| | 9:48 | 37.70 | 58.63 |
| | 9:48 | 39.42 | 57.57 |
| | 9:48 | 41.39 | 57.51 |
| | 9:48 | 38.00 | 57.22 |
| | 9:49 | 39.60 | 57.04 |
| | 9:49 | 39.72 | 57.25 |
| | 9:49 | 39.87 | 56.77 |
| | 9:49 | 40.42 | 57.22 |
| | 9:49 | 39.58 | 58.49 |
| | 9:49 | 40.60 | 58.25 |
| | 9:50 | 39.19 | 57.53 |
| | 9:50 | 39.93 | 57.57 |
| | 9:51 | 39.25 | 59.33 |
| | 9:52 | 38.27 | 58.27 |
| | 9:52 | 38.81 | 57.62 |
| 4/10/2021 | 9:52 | 53.17 | 58.69 |
| | | | |
| Maximum | | 51.10 | 61.17 |
| Minimum | | 35.35 | 56.42 |
| Average | | 42.05 | 59.59 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 10:13 | 43.76 | 55.51 |
| 10:13 | 42.40 | 55.41 |
| 10:13 | 42.04 | 54.70 |
| 10:14 | 42.64 | 55.47 |
| 10:14 | 42.90 | 54.46 |
| 10:14 | 43.45 | 55.11 |
| 10:14 | 43.38 | 54.35 |
| 10:14 | 43.38 | 54.78 |
| 10:15 | 50.52 | 59.43 |
| 10:15 | 43.19 | 57.04 |
| 10:15 | 43.41 | 55.96 |
| 10:15 | 42.01 | 54.04 |
| 10:15 | 42.36 | 54.68 |
| 10:16 | 43.11 | 55.56 |
| 10:16 | 40.51 | 55.93 |
| 10:16 | 47.04 | 56.40 |
| 10:16 | 42.62 | 55.44 |
| 10:17 | 46.67 | 55.51 |
| 10:17 | 45.75 | 54.53 |
| 10:17 | 48.73 | 55.65 |
| 10:18 | 43.71 | 55.45 |
| 10:18 | 42.56 | 54.86 |
| 10:18 | 42.26 | 54.36 |
| 10:18 | 41.88 | 55.31 |
| 10:18 | 42.26 | 55.22 |
| 10:18 | 42.10 | 54.71 |
| 10:19 | 41.08 | 54.39 |
| 10:19 | 41.99 | 54.78 |
| 10:19 | 42.04 | 55.04 |
| 10:19 | 45.11 | 56.15 |
| 10:19 | 43.09 | 56.16 |
| 10:19 | 43.76 | 55.18 |
| 10:20 | 43.80 | 55.32 |
| 10:20 | 41.54 | 55.51 |
| 10:20 | 42.95 | 55.59 |
| 10:20 | 42.50 | 55.81 |
| 10:20 | 42.34 | 55.32 |
| 10:20 | 44.36 | 54.16 |
| 10:21 | 48.57 | 56.38 |
| 10:21 | 43.29 | 55.97 |
| 10:21 | 42.38 | 55.51 |
| 10:21 | 42.56 | 55.47 |
| 10:21 | 41.81 | 55.38 |
| 10:21 | 42.07 | 54.77 |
| 10:22 | 42.29 | 56.36 |
| 10:22 | 43.17 | 55.56 |
| 10:22 | 42.23 | 55.19 |
| 10:22 | 42.95 | 55.76 |
| 10:22 | 48.81 | 60.28 |
| 10:22 | 46.27 | 56.83 |
| 10:23 | 44.37 | 56.19 |
| 10:23 | 43.65 | 55.92 |
| 10:23 | 42.63 | 55.68 |
| 10:23 | 42.31 | 56.43 |
| 10:23 | 48.32 | 62.02 |
| 10:24 | 46.18 | 60.28 |
| 10:24 | 43.61 | 56.75 |
| 10:24 | 42.87 | 55.34 |
| 10:24 | 42.73 | 55.14 |
| 10:24 | 43.16 | 54.93 |
| 10:24 | 42.75 | 56.11 |
| 10:25 | 42.29 | 56.10 |
| 10:25 | 43.04 | 55.63 |
| 10:25 | 43.09 | 54.71 |
| 10:25 | 43.21 | 55.04 |
| 10:25 | 43.75 | 55.30 |
| 10:25 | 44.00 | 55.78 |
| 10:26 | 42.60 | 54.94 |
| 10:26 | 43.09 | 55.46 |
| 10:26 | 46.37 | 55.99 |
| 10:26 | 49.77 | 57.76 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 10:26 | 49.17 | 58.02 |
| 10:26 | 43.18 | 55.15 |
| 10:27 | 42.78 | 55.46 |
| 10:27 | 42.77 | 54.92 |
| 10:27 | 43.21 | 57.06 |
| 10:27 | 44.60 | 57.49 |
| 10:27 | 44.56 | 55.56 |
| 10:27 | 43.08 | 54.60 |
| 10:28 | 41.40 | 54.86 |
| 10:28 | 41.19 | 55.21 |
| 10:28 | 41.34 | 54.66 |
| 10:28 | 39.14 | 54.38 |
| 10:28 | 40.68 | 54.49 |
| 10:28 | 39.63 | 54.47 |
| 10:29 | 37.43 | 54.16 |
| 10:29 | 38.92 | 54.38 |
| 10:29 | 40.40 | 54.50 |
| 10:29 | 41.28 | 55.04 |
| 10:29 | 41.77 | 55.13 |
| 10:29 | 43.40 | 55.24 |
| 10:30 | 42.31 | 55.84 |
| 10:30 | 42.49 | 55.19 |
| 10:30 | 41.21 | 55.48 |
| 10:30 | 43.33 | 54.99 |
| 10:30 | 42.15 | 55.20 |
| 10:30 | 41.47 | 55.45 |
| 10:31 | 40.77 | 56.21 |
| 10:31 | 42.12 | 56.58 |
| 10:31 | 42.19 | 55.33 |
| 10:31 | 42.40 | 55.88 |
| 10:31 | 41.69 | 54.73 |
| 10:31 | 42.42 | 56.15 |
| 10:32 | 42.17 | 55.36 |
| 10:32 | 41.47 | 54.40 |
| 10:32 | 41.49 | 54.54 |
| 10:32 | 42.24 | 55.00 |
| 10:32 | 46.45 | 55.52 |
| 10:32 | 42.75 | 55.44 |
| 10:33 | 42.74 | 55.68 |
| 10:33 | 41.60 | 55.60 |
| 10:33 | 42.74 | 55.91 |
| 10:33 | 43.92 | 56.24 |
| 10:33 | 46.92 | 58.22 |
| 10:33 | 48.92 | 59.47 |
| 10:34 | 47.08 | 57.81 |
| 10:34 | 42.38 | 56.13 |
| 10:34 | 41.33 | 55.83 |
| 10:34 | 42.18 | 55.20 |
| 10:34 | 42.89 | 55.52 |
| 10:34 | 40.92 | 55.11 |
| 10:35 | 41.56 | 54.78 |
| 10:35 | 40.95 | 55.28 |
| 10:35 | 41.58 | 55.89 |
| 10:35 | 42.95 | 55.58 |
| 10:35 | 57.27 | 63.30 |
| 10:35 | 42.24 | 54.31 |
| 10:36 | 41.59 | 54.52 |
| 10:36 | 41.82 | 54.20 |
| 10:36 | 40.95 | 55.16 |
| 10:36 | 42.28 | 55.37 |
| 10:36 | 42.07 | 55.63 |
| 10:36 | 41.19 | 55.14 |
| 10:37 | 41.22 | 55.57 |
| 10:37 | 41.15 | 55.15 |
| 10:37 | 40.88 | 56.16 |
| 10:37 | 41.90 | 55.03 |
| 10:38 | 39.96 | 55.21 |
| 10:38 | 40.06 | 54.38 |
| 10:38 | 40.12 | 55.69 |
| 10:38 | 39.97 | 54.90 |
| 10:38 | 40.06 | 55.46 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 10:39 | 40.50 | 57.27 |
| 10:39 | 39.13 | 53.92 |
| 10:39 | 39.28 | 55.22 |
| 10:39 | 39.06 | 55.33 |
| 10:39 | 39.33 | 54.58 |
| 10:39 | 39.60 | 53.97 |
| 10:40 | 39.91 | 55.02 |
| 10:40 | 42.01 | 59.49 |
| 10:40 | 48.11 | 63.54 |
| 10:40 | 38.90 | 53.79 |
| 10:40 | 39.30 | 54.22 |
| 10:40 | 40.30 | 54.03 |
| 10:41 | 41.50 | 54.91 |
| 10:41 | 41.42 | 55.03 |
| 10:41 | 39.24 | 54.85 |
| 10:41 | 39.21 | 54.29 |
| 10:41 | 39.12 | 52.62 |
| 10:41 | 38.77 | 53.55 |
| 10:42 | 40.08 | 53.42 |
| 10:42 | 39.63 | 53.93 |
| 10:42 | 39.10 | 54.13 |
| 10:42 | 39.24 | 54.02 |
| 10:42 | 39.05 | 52.85 |
| 10:42 | 39.63 | 54.09 |
| 10:43 | 40.21 | 54.94 |
| 10:43 | 40.95 | 55.71 |
| 10:43 | 59.19 | 62.24 |
| 10:43 | 40.16 | 54.77 |
| 10:43 | 39.94 | 54.79 |
| 10:44 | 39.97 | 54.10 |
| 10:44 | 39.07 | 55.19 |
| 10:45 | 42.29 | 55.25 |
| 10:45 | 41.17 | 55.47 |
| 10:45 | 40.41 | 55.07 |
| 10:45 | 40.67 | 55.20 |
| 10:45 | 41.11 | 55.04 |
| 10:46 | 40.71 | 54.93 |
| 10:46 | 40.29 | 54.59 |
| 10:46 | 40.80 | 55.26 |
| 10:46 | 41.01 | 55.80 |
| 10:46 | 47.14 | 57.47 |
| 10:46 | 43.93 | 55.48 |
| 10:47 | 43.77 | 54.93 |
| 10:47 | 42.10 | 55.47 |
| 10:47 | 41.37 | 56.19 |
| 10:47 | 41.75 | 55.03 |
| 10:47 | 40.02 | 54.30 |
| 10:47 | 41.21 | 54.45 |
| 10:48 | 40.66 | 53.90 |
| 10:48 | 39.85 | 54.77 |
| 10:48 | 42.07 | 54.61 |
| 10:48 | 42.45 | 55.17 |
| 10:48 | 42.34 | 54.94 |
| 10:48 | 41.75 | 55.16 |
| 10:49 | 44.14 | 55.76 |
| 10:49 | 42.20 | 56.22 |
| 10:49 | 42.46 | 56.44 |
| 10:49 | 42.27 | 56.50 |
| 10:49 | 42.17 | 55.62 |
| 10:49 | 42.96 | 54.72 |
| 10:50 | 42.41 | 54.87 |
| 10:50 | 42.89 | 54.82 |
| 10:50 | 42.26 | 55.41 |
| 10:50 | 41.41 | 54.87 |
| 10:50 | 41.91 | 55.04 |
| 10:50 | 41.15 | 55.31 |
| 10:51 | 41.28 | 55.79 |
| 10:51 | 41.60 | 54.92 |
| 10:51 | 41.41 | 54.79 |
| 10:51 | 41.34 | 54.87 |
| 10:51 | 40.91 | 55.43 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 10:51 | 41.22 | 54.57 |
| 10:52 | 40.92 | 55.26 |
| 10:52 | 40.22 | 56.19 |
| 10:52 | 40.51 | 56.71 |
| 10:52 | 40.24 | 55.14 |
| 10:52 | 40.74 | 55.36 |
| 10:52 | 41.48 | 56.27 |
| 10:53 | 41.52 | 55.14 |
| 10:53 | 41.69 | 54.76 |
| 10:53 | 47.31 | 57.63 |
| 10:53 | 46.34 | 56.48 |
| 10:53 | 44.89 | 55.77 |
| 10:53 | 42.43 | 55.04 |
| 10:54 | 42.17 | 54.75 |
| 10:54 | 43.35 | 54.52 |
| 10:54 | 42.34 | 54.39 |
| 10:54 | 41.68 | 53.81 |
| 10:54 | 42.79 | 54.64 |
| 10:54 | 40.72 | 54.71 |
| 10:55 | 41.91 | 54.92 |
| 10:55 | 40.09 | 54.67 |
| 10:55 | 41.33 | 54.97 |
| 10:55 | 38.86 | 54.27 |
| 10:55 | 39.99 | 55.78 |
| 10:55 | 41.33 | 55.77 |
| 10:56 | 40.46 | 55.05 |
| 10:56 | 41.62 | 55.38 |
| 10:56 | 39.52 | 54.52 |
| 10:56 | 40.13 | 54.25 |
| 10:56 | 39.81 | 53.94 |
| 10:56 | 40.98 | 55.66 |
| 10:57 | 40.50 | 55.70 |
| 10:57 | 40.68 | 54.38 |
| 10:57 | 39.45 | 53.72 |
| 10:57 | 40.09 | 53.75 |
| 10:57 | 41.25 | 56.77 |
| 10:57 | 40.02 | 55.93 |
| 10:58 | 41.57 | 56.49 |
| 10:58 | 44.84 | 56.19 |
| 10:58 | 45.45 | 55.48 |
| 10:58 | 40.62 | 57.58 |
| 10:58 | 42.41 | 55.53 |
| 10:58 | 43.56 | 55.17 |
| 10:59 | 47.55 | 57.68 |
| 10:59 | 43.53 | 55.38 |
| 10:59 | 42.27 | 54.76 |
| 10:59 | 40.93 | 54.73 |
| 10:59 | 41.72 | 54.54 |
| 10:59 | 40.77 | 54.94 |
| 11:00 | 39.11 | 54.01 |
| 11:00 | 40.04 | 54.03 |
| 11:00 | 45.94 | 54.99 |
| 11:00 | 49.52 | 56.41 |
| 11:00 | 51.11 | 59.05 |
| 11:00 | 48.59 | 57.29 |
| 11:01 | 43.91 | 54.58 |
| 11:01 | 44.17 | 55.06 |
| 11:01 | 44.94 | 55.74 |
| 11:01 | 44.79 | 56.02 |
| 11:01 | 43.58 | 55.10 |
| 11:01 | 41.94 | 55.79 |
| 11:02 | 42.18 | 54.51 |
| 11:02 | 40.91 | 55.19 |
| 11:02 | 40.35 | 55.88 |
| 11:02 | 39.96 | 55.11 |
| 11:02 | 42.12 | 54.78 |
| 11:02 | 39.88 | 54.48 |
| 11:03 | 42.44 | 55.55 |
| 11:03 | 46.93 | 55.16 |
| 11:03 | 47.77 | 55.57 |
| 11:03 | 42.62 | 55.38 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 11:03 | 39.17 | 55.27 |
| 11:03 | 39.75 | 55.29 |
| 11:04 | 46.50 | 56.33 |
| 11:04 | 47.60 | 57.48 |
| 11:04 | 45.70 | 55.11 |
| 11:04 | 39.63 | 53.79 |
| 11:04 | 40.60 | 55.03 |
| 11:04 | 39.79 | 54.44 |
| 11:05 | 39.27 | 55.77 |
| 11:05 | 39.88 | 55.04 |
| 11:05 | 38.58 | 55.48 |
| 11:05 | 38.48 | 55.56 |
| 11:05 | 37.45 | 54.85 |
| 11:05 | 37.97 | 54.90 |
| 11:06 | 38.61 | 55.82 |
| 11:06 | 37.89 | 55.54 |
| 11:06 | 37.60 | 54.85 |
| 11:06 | 36.62 | 54.33 |
| 11:06 | 36.87 | 54.59 |
| 11:06 | 38.69 | 54.31 |
| 11:07 | 38.35 | 54.99 |
| 11:07 | 36.84 | 54.79 |
| 11:07 | 38.01 | 54.50 |
| 11:07 | 38.69 | 54.11 |
| 11:07 | 40.46 | 55.56 |
| 11:07 | 40.15 | 54.00 |
| 11:08 | 40.73 | 54.89 |
| 11:08 | 40.62 | 54.97 |
| 11:08 | 45.76 | 55.41 |
| 11:08 | 40.98 | 54.36 |
| 11:08 | 41.38 | 55.96 |
| 11:08 | 41.53 | 55.63 |
| 11:09 | 40.88 | 55.69 |
| 11:09 | 44.31 | 55.46 |
| 11:09 | 47.07 | 55.90 |
| 11:09 | 45.24 | 55.75 |
| 11:09 | 41.25 | 55.76 |
| 11:09 | 40.86 | 55.73 |
| 11:10 | 41.81 | 55.63 |
| 11:10 | 40.70 | 56.02 |
| 11:10 | 41.83 | 56.76 |
| 11:10 | 41.78 | 56.29 |
| 11:10 | 41.53 | 57.47 |
| 11:10 | 42.60 | 57.02 |
| 11:11 | 43.21 | 56.39 |
| 11:11 | 49.05 | 58.46 |
| 11:11 | 45.28 | 56.50 |
| 11:11 | 44.55 | 56.84 |
| 11:11 | 50.45 | 59.06 |
| 11:11 | 45.43 | 56.49 |
| 11:12 | 44.33 | 56.99 |
| 11:12 | 43.30 | 55.35 |
| 11:12 | 43.92 | 54.90 |
| 11:12 | 45.06 | 55.78 |
| 11:12 | 45.17 | 57.33 |
| 11:12 | 44.59 | 55.35 |
| 11:13 | 47.10 | 55.32 |
| 11:13 | 54.05 | 62.08 |
| 11:13 | 44.39 | 55.04 |
| 11:13 | 42.62 | 53.61 |
| 11:13 | 43.55 | 54.35 |
| 11:13 | 42.39 | 53.65 |
| 11:14 | 43.40 | 54.98 |
| 11:14 | 48.71 | 57.61 |
| 11:14 | 47.32 | 55.24 |
| 11:14 | 44.59 | 54.83 |
| 11:14 | 44.01 | 54.11 |
| 11:14 | 41.87 | 55.15 |
| 11:15 | 41.74 | 54.66 |
| 11:15 | 41.72 | 55.41 |
| 11:15 | 40.61 | 56.27 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 11:15 | 40.69 | 53.57 |
| 11:15 | 40.63 | 53.23 |
| 11:15 | 40.90 | 53.53 |
| 11:16 | 40.84 | 54.09 |
| 11:16 | 42.16 | 54.04 |
| 11:16 | 40.78 | 54.53 |
| 11:16 | 41.58 | 52.89 |
| 11:16 | 41.86 | 53.40 |
| 11:16 | 41.09 | 52.87 |
| 11:17 | 42.64 | 52.56 |
| 11:17 | 47.80 | 54.98 |
| 11:17 | 48.96 | 57.31 |
| 11:17 | 46.98 | 56.40 |
| 11:17 | 47.16 | 56.77 |
| 11:17 | 47.47 | 52.91 |
| 11:18 | 43.70 | 53.90 |
| 11:18 | 52.93 | 60.50 |
| 11:18 | 41.73 | 53.42 |
| 11:18 | 41.47 | 53.83 |
| 11:18 | 44.84 | 53.33 |
| 11:18 | 42.20 | 53.82 |
| 11:19 | 41.75 | 54.52 |
| 11:19 | 41.21 | 53.78 |
| 11:19 | 40.81 | 54.02 |
| 11:19 | 41.65 | 54.12 |
| 11:19 | 40.76 | 54.94 |
| 11:19 | 40.19 | 54.45 |
| 11:20 | 41.03 | 55.35 |
| 11:20 | 40.34 | 54.12 |
| 11:20 | 41.10 | 55.20 |
| 11:20 | 40.22 | 53.74 |
| 11:20 | 41.19 | 54.06 |
| 11:20 | 40.78 | 55.37 |
| 11:21 | 40.74 | 56.49 |
| 11:21 | 39.78 | 53.66 |
| 11:21 | 40.03 | 54.05 |
| 11:21 | 41.10 | 54.81 |
| 11:21 | 41.64 | 55.31 |
| 11:21 | 41.60 | 55.62 |
| 11:22 | 40.91 | 56.00 |
| 11:22 | 40.67 | 54.13 |
| 11:22 | 41.35 | 54.80 |
| 11:22 | 40.86 | 54.65 |
| 11:22 | 40.50 | 55.49 |
| 11:22 | 39.50 | 54.05 |
| 11:23 | 40.11 | 53.64 |
| 11:23 | 40.36 | 52.69 |
| 11:23 | 38.95 | 53.39 |
| 11:23 | 39.19 | 53.95 |
| 11:23 | 39.85 | 54.56 |
| 11:23 | 40.25 | 57.16 |
| 11:24 | 40.52 | 53.28 |
| 11:24 | 39.40 | 53.49 |
| 11:24 | 37.23 | 54.53 |
| 11:24 | 38.78 | 53.74 |
| 11:24 | 38.29 | 54.06 |
| 11:24 | 39.73 | 53.93 |
| 11:25 | 38.96 | 53.42 |
| 11:25 | 38.59 | 52.72 |
| 11:25 | 38.64 | 55.36 |
| 11:25 | 40.06 | 52.51 |
| 11:25 | 39.58 | 53.33 |
| 11:25 | 38.81 | 53.93 |
| 11:26 | 39.66 | 53.52 |
| 11:26 | 40.04 | 52.47 |
| 11:26 | 41.04 | 54.11 |
| 11:26 | 40.23 | 54.55 |
| 11:26 | 40.87 | 55.05 |
| 11:26 | 43.25 | 55.22 |
| 11:27 | 39.74 | 54.23 |
| 11:27 | 39.08 | 54.49 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 11:27 | 38.72 | 55.50 |
| 11:27 | 39.12 | 53.97 |
| 11:27 | 39.97 | 55.64 |
| 11:27 | 39.08 | 55.05 |
| 11:28 | 39.58 | 53.55 |
| 11:28 | 38.77 | 54.72 |
| 11:28 | 39.27 | 54.89 |
| 11:28 | 38.33 | 55.11 |
| 11:28 | 38.51 | 54.23 |
| 11:28 | 47.85 | 54.33 |
| 11:29 | 39.39 | 54.07 |
| 11:29 | 37.76 | 54.33 |
| 11:29 | 37.69 | 54.55 |
| 11:29 | 36.96 | 53.92 |
| 11:29 | 38.23 | 54.24 |
| 11:29 | 39.29 | 53.54 |
| 11:30 | 46.41 | 57.46 |
| 11:30 | 42.62 | 56.85 |
| 11:30 | 42.11 | 56.08 |
| 11:30 | 40.79 | 54.12 |
| 11:31 | 40.54 | 54.11 |
| 11:31 | 42.33 | 53.65 |
| 11:31 | 40.84 | 53.62 |
| 11:31 | 41.10 | 52.62 |
| 11:31 | 40.76 | 53.41 |
| 11:32 | 40.98 | 53.65 |
| 11:32 | 40.08 | 53.33 |
| 11:32 | 38.41 | 52.83 |
| 11:32 | 37.75 | 53.75 |
| 11:32 | 39.39 | 53.94 |
| 11:32 | 40.03 | 54.77 |
| 11:33 | 39.30 | 53.29 |
| 11:33 | 39.30 | 53.83 |
| 11:33 | 39.70 | 54.00 |
| 11:33 | 38.98 | 53.82 |
| 11:33 | 43.57 | 55.12 |
| 11:33 | 41.44 | 55.23 |
| 11:34 | 40.17 | 54.84 |
| 11:34 | 39.81 | 54.23 |
| 11:34 | 39.56 | 54.45 |
| 11:34 | 39.03 | 51.14 |
| 11:34 | 40.09 | 52.45 |
| 11:34 | 41.10 | 52.11 |
| 11:35 | 40.27 | 53.37 |
| 11:35 | 40.86 | 54.04 |
| 11:35 | 41.20 | 53.86 |
| 11:35 | 41.03 | 55.20 |
| 11:35 | 41.39 | 52.67 |
| 11:35 | 40.25 | 55.77 |
| 11:36 | 41.20 | 53.44 |
| 11:36 | 39.56 | 53.85 |
| 11:36 | 40.47 | 54.94 |
| 11:36 | 41.02 | 55.03 |
| 11:36 | 41.59 | 55.48 |
| 11:36 | 40.75 | 55.09 |
| 11:37 | 41.28 | 54.55 |
| 11:37 | 45.88 | 54.89 |
| 11:37 | 40.17 | 53.23 |
| 11:37 | 39.07 | 53.55 |
| 11:37 | 41.03 | 53.53 |
| 11:37 | 40.14 | 53.46 |
| 11:38 | 41.26 | 53.06 |
| 11:38 | 41.37 | 54.01 |
| 11:38 | 43.13 | 54.00 |
| 11:38 | 44.34 | 56.72 |
| 11:38 | 44.95 | 55.23 |
| 11:38 | 43.66 | 56.36 |
| 11:39 | 39.91 | 53.77 |
| 11:39 | 44.17 | 56.04 |
| 11:39 | 42.49 | 54.35 |
| 11:39 | 43.57 | 55.91 |

Site 2 4/10/21

| | LAeq | LCeq |
|---|---|---|
| 11:40 | 40.95 | 54.35 |
| 11:40 | 43.69 | 53.83 |
| 11:40 | 39.50 | 53.58 |
| 11:40 | 41.69 | 55.17 |
| 11:40 | 41.45 | 54.10 |
| 11:40 | 38.67 | 54.39 |
| 11:41 | 41.52 | 58.07 |
| 11:41 | 40.32 | 54.32 |
| 11:41 | 42.74 | 54.34 |
| 11:41 | 43.02 | 55.20 |
| 11:42 | 41.87 | 54.55 |
| 11:42 | 39.41 | 54.14 |
| 11:42 | 38.91 | 53.84 |
| 11:42 | 40.82 | 53.76 |
| 11:42 | 40.87 | 54.83 |
| 11:42 | 39.62 | 53.99 |
| 11:43 | 37.95 | 53.52 |
| 11:43 | 38.62 | 53.63 |
| 11:43 | 41.93 | 54.29 |
| 11:43 | 38.40 | 52.96 |
| 11:43 | 39.19 | 52.76 |
| 11:43 | 40.43 | 52.61 |
| 11:44 | 38.88 | 52.35 |
| 11:44 | 39.46 | 52.21 |
| 11:44 | 38.17 | 55.78 |
| 11:44 | 37.26 | 52.50 |
| 11:44 | 36.34 | 52.44 |
| 11:44 | 38.17 | 53.91 |
| 11:45 | 38.01 | 54.19 |
| 11:45 | 38.89 | 54.26 |
| 11:45 | 38.82 | 54.98 |
| 11:45 | 39.15 | 54.28 |
| 11:45 | 38.21 | 54.51 |
| 11:45 | 38.55 | 54.39 |
| 11:46 | 38.30 | 54.74 |
| 11:46 | 39.09 | 54.39 |
| 11:46 | 39.11 | 55.78 |
| 11:46 | 40.47 | 56.66 |
| 11:46 | 40.06 | 62.53 |
| 11:46 | 40.54 | 57.01 |
| 11:47 | 40.05 | 55.04 |
| 11:47 | 38.56 | 53.82 |
| 11:47 | 39.12 | 54.29 |
| 11:47 | 37.47 | 54.46 |
| 11:47 | 38.23 | 53.21 |
| 11:47 | 39.02 | 53.12 |
| 11:48 | 38.66 | 53.82 |
| 11:48 | 38.46 | 55.79 |
| 11:48 | 40.07 | 55.01 |
| 11:48 | 41.35 | 57.20 |
| 11:48 | 45.05 | 56.21 |
| 11:48 | 46.79 | 57.04 |
| 11:49 | 44.81 | 56.30 |
| 11:49 | 43.07 | 54.30 |
| 11:49 | 38.83 | 53.17 |
| 11:49 | 36.92 | 53.80 |
| 11:49 | 35.68 | 54.37 |
| 11:49 | 36.72 | 52.99 |
| 11:50 | 38.17 | 54.27 |
| 11:50 | 38.95 | 55.90 |
| 11:50 | 44.13 | 56.58 |
| 11:50 | 41.43 | 56.24 |
| 11:50 | 45.92 | 56.60 |
| 11:50 | 42.88 | 56.60 |
| 11:51 | 42.55 | 55.21 |
| 11:51 | 41.07 | 56.18 |
| 11:51 | 38.67 | 55.57 |
| 11:51 | 37.98 | 57.44 |
| 11:51 | 38.59 | 53.89 |
| 11:51 | 42.01 | 55.63 |
| 11:52 | 42.31 | 54.85 |

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| | LAeq | LCeq |
|---|---|---|
| 11:52 | 42.40 | 56.17 |
| 11:52 | 42.98 | 54.51 |
| 11:52 | 37.78 | 53.94 |
| 11:52 | 40.51 | 54.04 |
| 11:52 | 40.12 | 53.50 |
| 11:53 | 39.90 | 53.62 |
| 11:53 | 38.77 | 54.81 |
| 11:53 | 40.68 | 54.42 |
| 11:53 | 41.41 | 54.76 |
| 11:53 | 41.93 | 55.34 |
| 11:53 | 48.20 | 57.04 |
| 11:54 | 49.29 | 59.97 |
| 11:54 | 47.55 | 55.28 |
| 11:54 | 43.03 | 54.94 |
| 11:54 | 42.72 | 54.41 |
| 11:54 | 44.09 | 57.02 |
| 11:54 | 41.80 | 55.87 |
| 11:55 | 43.44 | 57.27 |
| 11:55 | 42.20 | 55.78 |
| 11:55 | 41.41 | 55.31 |
| 11:55 | 41.92 | 56.91 |
| 11:55 | 42.06 | 56.02 |
| 11:55 | 46.33 | 56.76 |
| 11:56 | 43.40 | 55.11 |
| 11:56 | 42.61 | 55.03 |
| 11:56 | 41.91 | 54.39 |
| 11:56 | 41.53 | 54.38 |
| 11:56 | 41.88 | 54.92 |
| 11:56 | 41.27 | 55.30 |
| 11:57 | 41.57 | 54.31 |
| 11:57 | 41.01 | 55.40 |
| 11:57 | 40.82 | 55.17 |
| 11:57 | 42.31 | 56.85 |
| 11:58 | 41.75 | 55.33 |
| 11:58 | 40.86 | 55.39 |
| 11:58 | 41.35 | 55.46 |
| 11:58 | 40.77 | 54.97 |
| 11:58 | 40.48 | 54.89 |
| 11:58 | 40.54 | 54.74 |
| 11:59 | 39.81 | 54.46 |
| 11:59 | 39.03 | 53.10 |
| 11:59 | 39.68 | 53.80 |
| 11:59 | 40.56 | 54.49 |
| 11:59 | 39.37 | 53.41 |
| 11:59 | 39.52 | 53.64 |
| 12:00 | 40.32 | 54.01 |
| 12:00 | 42.45 | 54.76 |
| 12:00 | 42.51 | 54.57 |
| 12:00 | 41.59 | 55.33 |
| 12:00 | 40.49 | 56.73 |
| 12:00 | 40.21 | 55.74 |
| 12:01 | 40.47 | 54.71 |
| 12:01 | 39.04 | 53.08 |
| 12:01 | 40.26 | 54.49 |
| 12:01 | 40.59 | 53.97 |
| 12:01 | 40.95 | 53.90 |
| 12:01 | 41.51 | 56.52 |
| 12:02 | 42.35 | 55.35 |
| 12:02 | 40.99 | 55.37 |
| 12:02 | 40.86 | 55.68 |
| 12:02 | 41.20 | 55.86 |
| 12:02 | 43.75 | 54.88 |
| 12:02 | 44.08 | 53.43 |
| 12:03 | 44.95 | 53.68 |
| 12:03 | 45.92 | 55.24 |
| 12:03 | 44.63 | 54.68 |
| 12:03 | 41.97 | 54.49 |
| 12:03 | 42.01 | 55.11 |
| 12:03 | 40.86 | 53.41 |
| 12:04 | 40.06 | 53.63 |
| 12:04 | 41.29 | 53.94 |

| Site 2 | | 4/10/21 | |
|---|---|---|---|
| | | LAeq | LCeq |
| | 12:04 | 41.71 | 55.27 |
| | 12:04 | 41.76 | 55.25 |
| | 12:04 | 41.49 | 57.18 |
| | 12:04 | 41.61 | 55.74 |
| | 12:05 | 40.10 | 55.34 |
| | 12:05 | 40.52 | 55.33 |
| | 12:05 | 40.66 | 55.40 |
| | 12:05 | 41.04 | 55.44 |
| | 12:05 | 42.46 | 56.04 |
| | 12:05 | 42.28 | 56.62 |
| | 12:06 | 41.57 | 55.03 |
| | 12:06 | 42.57 | 55.01 |
| | 12:06 | 43.62 | 55.03 |
| | 12:06 | 42.05 | 55.24 |
| | 12:06 | 42.81 | 55.28 |
| | 12:06 | 40.30 | 55.27 |
| | 12:07 | 38.93 | 57.47 |
| | 12:07 | 39.42 | 55.47 |
| | 12:07 | 39.33 | 54.52 |
| | 12:07 | 37.13 | 56.67 |
| | 12:07 | 38.94 | 54.09 |
| | 12:07 | 39.72 | 54.85 |
| | 12:08 | 39.94 | 55.89 |
| | 12:08 | 38.11 | 56.84 |
| | 12:08 | 38.46 | 58.58 |
| | 12:08 | 38.50 | 57.56 |
| | 12:08 | 39.08 | 55.62 |
| | 12:08 | 39.61 | 55.03 |
| | 12:09 | 38.10 | 55.13 |
| | 12:09 | 39.86 | 53.85 |
| | 12:09 | 39.28 | 56.20 |
| | 12:09 | 40.09 | 54.60 |
| | 12:09 | 40.91 | 53.57 |
| | 12:09 | 40.90 | 53.90 |
| | 12:10 | 42.21 | 54.08 |
| | 12:10 | 45.68 | 57.26 |
| | 12:10 | 47.56 | 63.43 |
| | 12:10 | 44.16 | 56.73 |
| | 12:10 | 43.08 | 54.62 |
| | 12:10 | 41.24 | 54.22 |
| | 12:11 | 43.43 | 54.04 |
| | 12:11 | 43.35 | 54.10 |
| | 12:11 | 42.39 | 52.82 |
| | 12:11 | 41.49 | 54.83 |
| | 12:11 | 41.19 | 55.75 |
| | 12:11 | 40.24 | 55.45 |
| | 12:12 | 42.19 | 55.05 |
| | 12:12 | 44.87 | 53.61 |
| | 12:12 | 48.75 | 59.43 |
| | 12:12 | 45.78 | 54.45 |
| | 12:12 | 41.84 | 52.85 |
| | 12:12 | 42.38 | 52.51 |
| | 12:13 | 41.80 | 52.24 |
| | 12:13 | 44.98 | 54.21 |
| | 12:13 | 41.61 | 54.71 |
| | 12:13 | 43.57 | 55.26 |
| | 12:13 | 44.39 | 54.71 |
| | 12:14 | 44.01 | 54.16 |
| | 12:14 | 42.42 | 54.04 |
| | | | |
| Maximum | | 59.19 | 63.54 |
| Minimum | | 35.68 | 51.14 |
| Average | | 43.09 | 55.43 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/8/2021 22:00 | 4/8/2021 23:59 | | | |
| Average | 40.54 | 40.56 | 7.37 | 328.38 |
| Maximum | 40.61 | 40.64 | 10.08 | 357.66 |
| Minimum | 40.49 | 40.50 | 5.20 | 111.06 |
| Std Deviation | 0.02 | 0.03 | 0.94 | 35.00 |
| 4/9/2021 0:18 | 4/9/2021 2:17 | | | |
| Average | 40.40 | 40.50 | 7.52 | 328.46 |
| Maximum | 40.53 | 40.59 | 9.99 | 384.64 |
| Minimum | 40.33 | 40.44 | 5.80 | 217.41 |
| Std Deviation | 0.05 | 0.03 | 0.87 | 26.17 |
| | | | | |
| 4/8/2021 21:59 | 40.55 | 40.57 | 7.73 | 229.03 |
| 4/8/2021 22:00 | 40.56 | 40.58 | 6.38 | 335.63 |
| 4/8/2021 22:01 | 40.58 | 40.60 | 7.65 | 340.35 |
| 4/8/2021 22:02 | 40.59 | 40.61 | 6.16 | 342.26 |
| 4/8/2021 22:03 | 40.56 | 40.58 | 7.54 | 339.12 |
| 4/8/2021 22:04 | 40.54 | 40.55 | 7.70 | 111.06 |
| 4/8/2021 22:05 | 40.55 | 40.56 | 6.61 | 357.66 |
| 4/8/2021 22:06 | 40.56 | 40.58 | 7.92 | 315.72 |
| 4/8/2021 22:07 | 40.54 | 40.55 | 8.47 | 335.53 |
| 4/8/2021 22:08 | 40.53 | 40.53 | 8.29 | 346.38 |
| 4/8/2021 22:09 | 40.55 | 40.56 | 7.22 | 332.41 |
| 4/8/2021 22:10 | 40.54 | 40.55 | 7.42 | 331.34 |
| 4/8/2021 22:11 | 40.54 | 40.55 | 6.91 | 348.12 |
| 4/8/2021 22:12 | 40.54 | 40.55 | 6.92 | 345.59 |
| 4/8/2021 22:13 | 40.54 | 40.55 | 6.74 | 339.16 |
| 4/8/2021 22:14 | 40.56 | 40.57 | 8.49 | 333.65 |
| 4/8/2021 22:15 | 40.57 | 40.58 | 8.15 | 330.96 |
| 4/8/2021 22:16 | 40.56 | 40.57 | 6.93 | 327.50 |
| 4/8/2021 22:17 | 40.54 | 40.55 | 7.26 | 344.78 |
| 4/8/2021 22:18 | 40.56 | 40.57 | 6.08 | 332.31 |
| 4/8/2021 22:19 | 40.58 | 40.60 | 6.13 | 336.16 |
| 4/8/2021 22:20 | 40.56 | 40.58 | 5.95 | 330.98 |
| 4/8/2021 22:21 | 40.55 | 40.57 | 6.56 | 317.97 |
| 4/8/2021 22:22 | 40.56 | 40.58 | 6.26 | 337.35 |
| 4/8/2021 22:23 | 40.55 | 40.57 | 7.20 | 328.74 |
| 4/8/2021 22:24 | 40.57 | 40.58 | 5.20 | 334.43 |
| 4/8/2021 22:25 | 40.54 | 40.55 | 8.35 | 216.84 |
| 4/8/2021 22:26 | 40.52 | 40.53 | 5.64 | 319.64 |
| 4/8/2021 22:27 | 40.52 | 40.53 | 8.42 | 329.38 |
| 4/8/2021 22:28 | 40.53 | 40.53 | 6.46 | 329.29 |
| 4/8/2021 22:29 | 40.51 | 40.51 | 6.44 | 336.53 |
| 4/8/2021 22:30 | 40.51 | 40.51 | 6.82 | 330.41 |
| 4/8/2021 22:31 | 40.49 | 40.50 | 6.63 | 323.70 |
| 4/8/2021 22:32 | 40.52 | 40.54 | 7.27 | 348.07 |
| 4/8/2021 22:33 | 40.53 | 40.54 | 6.89 | 327.64 |
| 4/8/2021 22:34 | 40.53 | 40.55 | 5.99 | 344.33 |
| 4/8/2021 22:35 | 40.53 | 40.56 | 7.31 | 333.04 |
| 4/8/2021 22:36 | 40.52 | 40.55 | 6.38 | 338.77 |
| 4/8/2021 22:37 | 40.54 | 40.57 | 6.17 | 341.40 |
| 4/8/2021 22:38 | 40.55 | 40.57 | 6.68 | 340.00 |
| 4/8/2021 22:39 | 40.58 | 40.61 | 5.45 | 330.60 |
| 4/8/2021 22:40 | 40.56 | 40.58 | 6.99 | 341.24 |
| 4/8/2021 22:41 | 40.54 | 40.56 | 8.54 | 324.29 |
| 4/8/2021 22:42 | 40.53 | 40.56 | 7.26 | 327.71 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Direction |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/8/2021 22:43 | 40.54 | 40.57 | 7.39 | 338.47 |
| 4/8/2021 22:44 | 40.57 | 40.60 | 6.91 | 332.59 |
| 4/8/2021 22:45 | 40.56 | 40.59 | 5.93 | 337.65 |
| 4/8/2021 22:46 | 40.58 | 40.61 | 6.11 | 338.77 |
| 4/8/2021 22:47 | 40.57 | 40.60 | 6.85 | 341.79 |
| 4/8/2021 22:48 | 40.57 | 40.61 | 8.09 | 328.88 |
| 4/8/2021 22:49 | 40.61 | 40.64 | 6.44 | 335.68 |
| 4/8/2021 22:50 | 40.60 | 40.64 | 8.23 | 346.51 |
| 4/8/2021 22:51 | 40.57 | 40.61 | 6.84 | 336.40 |
| 4/8/2021 22:52 | 40.57 | 40.60 | 7.73 | 250.88 |
| 4/8/2021 22:53 | 40.56 | 40.60 | 8.27 | 345.53 |
| 4/8/2021 22:54 | 40.57 | 40.61 | 10.08 | 332.64 |
| 4/8/2021 22:55 | 40.57 | 40.61 | 7.43 | 338.12 |
| 4/8/2021 22:56 | 40.57 | 40.60 | 6.67 | 341.55 |
| 4/8/2021 22:57 | 40.58 | 40.61 | 6.92 | 337.18 |
| 4/8/2021 22:58 | 40.55 | 40.59 | 6.21 | 344.46 |
| 4/8/2021 22:59 | 40.55 | 40.57 | 7.34 | 345.27 |
| 4/8/2021 23:00 | 40.52 | 40.55 | 8.22 | 350.48 |
| 4/8/2021 23:01 | 40.50 | 40.52 | 6.88 | 340.46 |
| 4/8/2021 23:02 | 40.52 | 40.55 | 6.59 | 339.02 |
| 4/8/2021 23:03 | 40.53 | 40.56 | 7.31 | 232.40 |
| 4/8/2021 23:04 | 40.52 | 40.55 | 7.26 | 333.84 |
| 4/8/2021 23:05 | 40.50 | 40.52 | 7.11 | 338.52 |
| 4/8/2021 23:06 | 40.51 | 40.53 | 8.20 | 337.16 |
| 4/8/2021 23:07 | 40.55 | 40.56 | 8.09 | 231.55 |
| 4/8/2021 23:08 | 40.55 | 40.58 | 7.88 | 341.98 |
| 4/8/2021 23:09 | 40.57 | 40.59 | 6.80 | 342.69 |
| 4/8/2021 23:10 | 40.57 | 40.60 | 7.54 | 226.10 |
| 4/8/2021 23:11 | 40.55 | 40.58 | 6.47 | 334.32 |
| 4/8/2021 23:12 | 40.54 | 40.56 | 8.56 | 342.70 |
| 4/8/2021 23:13 | 40.50 | 40.53 | 6.45 | 341.96 |
| 4/8/2021 23:14 | 40.51 | 40.51 | 9.03 | 344.86 |
| 4/8/2021 23:15 | 40.52 | 40.53 | 8.31 | 337.73 |
| 4/8/2021 23:16 | 40.52 | 40.53 | 7.02 | 340.76 |
| 4/8/2021 23:17 | 40.53 | 40.55 | 6.61 | 330.30 |
| 4/8/2021 23:18 | 40.55 | 40.57 | 6.60 | 342.19 |
| 4/8/2021 23:19 | 40.54 | 40.55 | 7.74 | 329.40 |
| 4/8/2021 23:20 | 40.52 | 40.54 | 8.34 | 335.07 |
| 4/8/2021 23:21 | 40.54 | 40.56 | 7.27 | 247.62 |
| 4/8/2021 23:22 | 40.56 | 40.57 | 6.49 | 347.19 |
| 4/8/2021 23:23 | 40.53 | 40.55 | 9.48 | 224.28 |
| 4/8/2021 23:24 | 40.54 | 40.56 | 7.68 | 338.60 |
| 4/8/2021 23:25 | 40.52 | 40.53 | 7.01 | 222.72 |
| 4/8/2021 23:26 | 40.50 | 40.52 | 6.77 | 335.97 |
| 4/8/2021 23:27 | 40.54 | 40.55 | 7.63 | 341.92 |
| 4/8/2021 23:28 | 40.54 | 40.55 | 8.55 | 337.05 |
| 4/8/2021 23:29 | 40.57 | 40.58 | 9.47 | 338.39 |
| 4/8/2021 23:30 | 40.56 | 40.57 | 9.07 | 327.80 |
| 4/8/2021 23:31 | 40.56 | 40.58 | 8.53 | 343.42 |
| 4/8/2021 23:32 | 40.56 | 40.56 | 8.82 | 336.75 |
| 4/8/2021 23:33 | 40.53 | 40.53 | 9.30 | 338.28 |
| 4/8/2021 23:34 | 40.52 | 40.53 | 7.87 | 344.52 |
| 4/8/2021 23:35 | 40.51 | 40.52 | 9.40 | 332.37 |
| 4/8/2021 23:36 | 40.52 | 40.54 | 7.73 | 341.52 |
| 4/8/2021 23:37 | 40.53 | 40.55 | 8.06 | 346.70 |

| Channel Name: | Ambient_WB | Ambient_DE | Wind_Speed | Wind_Directi |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/8/2021 23:38 | 40.53 | 40.55 | 8.42 | 343.16 |
| 4/8/2021 23:39 | 40.52 | 40.54 | 9.21 | 343.16 |
| 4/8/2021 23:40 | 40.51 | 40.53 | 8.27 | 342.02 |
| 4/8/2021 23:41 | 40.53 | 40.54 | 7.48 | 329.24 |
| 4/8/2021 23:42 | 40.54 | 40.56 | 7.41 | 340.66 |
| 4/8/2021 23:43 | 40.54 | 40.55 | 7.43 | 335.58 |
| 4/8/2021 23:44 | 40.55 | 40.56 | 6.69 | 339.80 |
| 4/8/2021 23:45 | 40.55 | 40.56 | 6.09 | 332.11 |
| 4/8/2021 23:46 | 40.56 | 40.58 | 6.95 | 338.23 |
| 4/8/2021 23:47 | 40.57 | 40.58 | 8.01 | 342.54 |
| 4/8/2021 23:48 | 40.57 | 40.60 | 7.96 | 340.29 |
| 4/8/2021 23:49 | 40.56 | 40.58 | 7.02 | 335.03 |
| 4/8/2021 23:50 | 40.56 | 40.58 | 7.85 | 343.21 |
| 4/8/2021 23:51 | 40.53 | 40.55 | 8.03 | 341.10 |
| 4/8/2021 23:52 | 40.50 | 40.52 | 7.43 | 338.64 |
| 4/8/2021 23:53 | 40.49 | 40.52 | 8.51 | 340.37 |
| 4/8/2021 23:54 | 40.49 | 40.51 | 7.61 | 332.43 |
| 4/8/2021 23:55 | 40.52 | 40.55 | 7.77 | 336.40 |
| 4/8/2021 23:56 | 40.54 | 40.57 | 6.52 | 332.92 |
| 4/8/2021 23:57 | 40.58 | 40.60 | 7.29 | 329.05 |
| 4/8/2021 23:58 | 40.57 | 40.60 | 6.62 | 338.78 |
| 4/8/2021 23:59 | 40.52 | 40.55 | 6.85 | 342.21 |
| 4/9/2021 | 40.50 | 40.52 | 7.68 | 345.64 |
| 4/9/2021 0:01 | 40.50 | 40.52 | 7.07 | 330.30 |
| 4/9/2021 0:02 | 40.50 | 40.51 | 8.53 | 329.90 |
| 4/9/2021 0:03 | 40.51 | 40.53 | 8.02 | 346.37 |
| 4/9/2021 0:04 | 40.49 | 40.51 | 7.60 | 339.65 |
| 4/9/2021 0:05 | 40.51 | 40.52 | 7.12 | 345.47 |
| 4/9/2021 0:06 | 40.52 | 40.54 | 8.08 | 336.30 |
| 4/9/2021 0:07 | 40.53 | 40.55 | 7.97 | 339.00 |
| 4/9/2021 0:08 | 40.52 | 40.52 | 7.75 | 326.23 |
| 4/9/2021 0:09 | 40.52 | 40.52 | 8.50 | 338.83 |
| 4/9/2021 0:10 | 40.50 | 40.50 | 10.30 | 326.03 |
| 4/9/2021 0:11 | 40.50 | 40.51 | 7.01 | 330.97 |
| 4/9/2021 0:12 | 40.51 | 40.52 | 8.06 | 332.50 |
| 4/9/2021 0:13 | 40.52 | 40.54 | 9.70 | 330.89 |
| 4/9/2021 0:14 | 40.51 | 40.52 | 8.81 | 337.03 |
| 4/9/2021 0:15 | 40.52 | 40.52 | 8.02 | 338.23 |
| 4/9/2021 0:16 | 40.50 | 40.51 | 9.76 | 340.84 |
| 4/9/2021 0:17 | 40.50 | 40.51 | 8.57 | 331.28 |
| 4/9/2021 0:18 | 40.47 | 40.49 | 8.27 | 347.50 |
| 4/9/2021 0:19 | 40.48 | 40.51 | 6.82 | 331.44 |
| 4/9/2021 0:20 | 40.48 | 40.52 | 7.32 | 346.06 |
| 4/9/2021 0:21 | 40.49 | 40.54 | 8.21 | 336.51 |
| 4/9/2021 0:22 | 40.49 | 40.54 | 8.61 | 334.52 |
| 4/9/2021 0:23 | 40.47 | 40.52 | 7.02 | 338.88 |
| 4/9/2021 0:24 | 40.48 | 40.53 | 6.22 | 329.32 |
| 4/9/2021 0:25 | 40.50 | 40.55 | 8.02 | 228.67 |
| 4/9/2021 0:26 | 40.50 | 40.55 | 7.04 | 336.33 |
| 4/9/2021 0:27 | 40.48 | 40.52 | 7.13 | 329.54 |
| 4/9/2021 0:28 | 40.46 | 40.50 | 8.23 | 223.40 |
| 4/9/2021 0:29 | 40.45 | 40.49 | 7.28 | 341.80 |
| 4/9/2021 0:30 | 40.47 | 40.52 | 6.31 | 344.62 |
| 4/9/2021 0:31 | 40.47 | 40.52 | 7.51 | 344.98 |
| 4/9/2021 0:32 | 40.48 | 40.53 | 7.65 | 342.88 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Direction |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/9/2021 0:33 | 40.48 | 40.54 | 7.46 | 334.85 |
| 4/9/2021 0:34 | 40.51 | 40.57 | 7.56 | 334.96 |
| 4/9/2021 0:35 | 40.50 | 40.58 | 6.82 | 323.72 |
| 4/9/2021 0:36 | 40.49 | 40.55 | 7.38 | 331.97 |
| 4/9/2021 0:37 | 40.53 | 40.59 | 6.41 | 332.28 |
| 4/9/2021 0:38 | 40.50 | 40.57 | 6.49 | 217.41 |
| 4/9/2021 0:39 | 40.47 | 40.53 | 6.50 | 334.25 |
| 4/9/2021 0:40 | 40.46 | 40.51 | 8.45 | 341.06 |
| 4/9/2021 0:41 | 40.44 | 40.51 | 7.42 | 345.90 |
| 4/9/2021 0:42 | 40.47 | 40.55 | 7.40 | 218.99 |
| 4/9/2021 0:43 | 40.46 | 40.54 | 7.16 | 337.89 |
| 4/9/2021 0:44 | 40.47 | 40.53 | 7.41 | 334.50 |
| 4/9/2021 0:45 | 40.46 | 40.52 | 7.68 | 336.21 |
| 4/9/2021 0:46 | 40.46 | 40.52 | 6.57 | 337.14 |
| 4/9/2021 0:47 | 40.48 | 40.56 | 7.71 | 329.44 |
| 4/9/2021 0:48 | 40.44 | 40.52 | 7.60 | 339.61 |
| 4/9/2021 0:49 | 40.42 | 40.49 | 7.87 | 341.27 |
| 4/9/2021 0:50 | 40.40 | 40.46 | 8.04 | 334.24 |
| 4/9/2021 0:51 | 40.38 | 40.44 | 8.05 | 346.27 |
| 4/9/2021 0:52 | 40.38 | 40.44 | 9.19 | 340.90 |
| 4/9/2021 0:53 | 40.39 | 40.45 | 9.82 | 328.59 |
| 4/9/2021 0:54 | 40.38 | 40.45 | 7.71 | 339.38 |
| 4/9/2021 0:55 | 40.37 | 40.45 | 8.76 | 341.74 |
| 4/9/2021 0:56 | 40.36 | 40.44 | 8.65 | 330.14 |
| 4/9/2021 0:57 | 40.38 | 40.45 | 7.68 | 271.23 |
| 4/9/2021 0:58 | 40.40 | 40.49 | 8.28 | 337.90 |
| 4/9/2021 0:59 | 40.37 | 40.49 | 6.71 | 338.45 |
| 4/9/2021 1:00 | 40.37 | 40.47 | 9.45 | 335.76 |
| 4/9/2021 1:01 | 40.36 | 40.47 | 9.17 | 334.08 |
| 4/9/2021 1:02 | 40.35 | 40.46 | 9.99 | 335.54 |
| 4/9/2021 1:03 | 40.33 | 40.44 | 8.24 | 331.38 |
| 4/9/2021 1:04 | 40.34 | 40.45 | 7.19 | 328.68 |
| 4/9/2021 1:05 | 40.36 | 40.47 | 6.16 | 337.71 |
| 4/9/2021 1:06 | 40.36 | 40.47 | 8.26 | 332.60 |
| 4/9/2021 1:07 | 40.34 | 40.45 | 7.24 | 334.66 |
| 4/9/2021 1:08 | 40.37 | 40.49 | 7.31 | 327.68 |
| 4/9/2021 1:09 | 40.37 | 40.49 | 6.81 | 335.81 |
| 4/9/2021 1:10 | 40.36 | 40.48 | 8.96 | 329.75 |
| 4/9/2021 1:11 | 40.34 | 40.47 | 7.71 | 333.33 |
| 4/9/2021 1:12 | 40.35 | 40.47 | 6.79 | 337.92 |
| 4/9/2021 1:13 | 40.35 | 40.48 | 7.20 | 337.77 |
| 4/9/2021 1:14 | 40.35 | 40.48 | 7.02 | 324.89 |
| 4/9/2021 1:15 | 40.34 | 40.46 | 8.57 | 332.19 |
| 4/9/2021 1:16 | 40.36 | 40.47 | 8.29 | 322.27 |
| 4/9/2021 1:17 | 40.36 | 40.48 | 7.71 | 334.84 |
| 4/9/2021 1:18 | 40.37 | 40.48 | 8.15 | 340.89 |
| 4/9/2021 1:19 | 40.36 | 40.48 | 7.85 | 335.56 |
| 4/9/2021 1:20 | 40.36 | 40.48 | 7.42 | 344.74 |
| 4/9/2021 1:21 | 40.37 | 40.49 | 8.15 | 338.63 |
| 4/9/2021 1:22 | 40.39 | 40.52 | 7.32 | 384.64 |
| 4/9/2021 1:23 | 40.37 | 40.51 | 7.40 | 337.01 |
| 4/9/2021 1:24 | 40.36 | 40.50 | 7.00 | 334.02 |
| 4/9/2021 1:25 | 40.37 | 40.51 | 7.14 | 338.48 |
| 4/9/2021 1:26 | 40.36 | 40.49 | 7.49 | 341.05 |
| 4/9/2021 1:27 | 40.34 | 40.47 | 6.41 | 335.17 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/9/2021 1:28 | 40.35 | 40.47 | 7.88 | 342.70 |
| 4/9/2021 1:29 | 40.35 | 40.48 | 6.86 | 326.75 |
| 4/9/2021 1:30 | 40.35 | 40.48 | 6.44 | 329.60 |
| 4/9/2021 1:31 | 40.37 | 40.51 | 6.45 | 319.54 |
| 4/9/2021 1:32 | 40.37 | 40.51 | 7.80 | 319.14 |
| 4/9/2021 1:33 | 40.35 | 40.48 | 7.49 | 337.01 |
| 4/9/2021 1:34 | 40.35 | 40.47 | 8.48 | 337.01 |
| 4/9/2021 1:35 | 40.35 | 40.48 | 6.60 | 346.23 |
| 4/9/2021 1:36 | 40.36 | 40.49 | 9.05 | 339.47 |
| 4/9/2021 1:37 | 40.35 | 40.49 | 7.23 | 222.16 |
| 4/9/2021 1:38 | 40.35 | 40.49 | 8.25 | 340.87 |
| 4/9/2021 1:39 | 40.37 | 40.51 | 7.52 | 330.12 |
| 4/9/2021 1:40 | 40.38 | 40.53 | 7.63 | 336.51 |
| 4/9/2021 1:41 | 40.38 | 40.54 | 6.40 | 330.53 |
| 4/9/2021 1:42 | 40.38 | 40.53 | 7.19 | 335.99 |
| 4/9/2021 1:43 | 40.38 | 40.52 | 6.90 | 331.34 |
| 4/9/2021 1:44 | 40.39 | 40.54 | 7.88 | 346.16 |
| 4/9/2021 1:45 | 40.38 | 40.54 | 6.89 | 337.13 |
| 4/9/2021 1:46 | 40.40 | 40.55 | 5.87 | 332.17 |
| 4/9/2021 1:47 | 40.42 | 40.58 | 7.50 | 327.11 |
| 4/9/2021 1:48 | 40.40 | 40.54 | 7.24 | 331.54 |
| 4/9/2021 1:49 | 40.38 | 40.52 | 6.93 | 333.94 |
| 4/9/2021 1:50 | 40.36 | 40.49 | 6.59 | 329.61 |
| 4/9/2021 1:51 | 40.36 | 40.48 | 8.62 | 330.40 |
| 4/9/2021 1:52 | 40.39 | 40.52 | 9.06 | 342.08 |
| 4/9/2021 1:53 | 40.40 | 40.54 | 6.57 | 318.22 |
| 4/9/2021 1:54 | 40.39 | 40.53 | 6.96 | 331.33 |
| 4/9/2021 1:55 | 40.39 | 40.52 | 6.64 | 335.05 |
| 4/9/2021 1:56 | 40.38 | 40.52 | 6.81 | 328.37 |
| 4/9/2021 1:57 | 40.37 | 40.51 | 6.34 | 333.06 |
| 4/9/2021 1:58 | 40.37 | 40.50 | 7.47 | 327.98 |
| 4/9/2021 1:59 | 40.38 | 40.50 | 6.33 | 330.20 |
| 4/9/2021 2:00 | 40.39 | 40.51 | 8.35 | 325.85 |
| 4/9/2021 2:01 | 40.37 | 40.48 | 8.54 | 338.50 |
| 4/9/2021 2:02 | 40.37 | 40.47 | 8.54 | 226.42 |
| 4/9/2021 2:03 | 40.36 | 40.47 | 7.61 | 330.80 |
| 4/9/2021 2:04 | 40.36 | 40.47 | 7.47 | 327.50 |
| 4/9/2021 2:05 | 40.36 | 40.47 | 6.87 | 330.40 |
| 4/9/2021 2:06 | 40.36 | 40.48 | 6.27 | 332.35 |
| 4/9/2021 2:07 | 40.37 | 40.47 | 8.29 | 327.72 |
| 4/9/2021 2:08 | 40.36 | 40.47 | 7.29 | 324.67 |
| 4/9/2021 2:09 | 40.36 | 40.47 | 6.99 | 335.52 |
| 4/9/2021 2:10 | 40.39 | 40.50 | 5.80 | 326.40 |
| 4/9/2021 2:11 | 40.40 | 40.52 | 8.66 | 321.68 |
| 4/9/2021 2:12 | 40.38 | 40.49 | 8.54 | 329.43 |
| 4/9/2021 2:13 | 40.37 | 40.48 | 9.44 | 322.77 |
| 4/9/2021 2:14 | 40.38 | 40.48 | 7.08 | 331.81 |
| 4/9/2021 2:15 | 40.39 | 40.51 | 6.69 | 331.50 |
| 4/9/2021 2:16 | 40.39 | 40.52 | 6.45 | 332.49 |
| 4/9/2021 2:17 | 40.38 | 40.51 | 6.48 | 326.19 |
| 4/9/2021 2:18 | 40.36 | 40.49 | 6.50 | 342.63 |
| 4/9/2021 2:19 | 40.36 | 40.49 | 7.80 | 331.09 |
| 4/9/2021 2:20 | 40.36 | 40.48 | 7.76 | 339.70 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/10/2021 7:50 | 4/10/2021 9:49 | | | |
| Average | 37.77 | 40.53 | 7.12 | 319 |
| Maximum | 40.41 | 43.95 | 11.12 | 352 |
| Minimum | 36.20 | 38.26 | 5.05 | 116 |
| Std Deviation | 1.39 | 1.97 | 1.30 | 38 |
| 4/10/2021 10:12 | 4/10/2021 12:11 | | | |
| Average | 47.62 | 48.23 | 10.60 | 260 |
| Maximum | 51.13 | 51.55 | 15.34 | 350 |
| Minimum | 40.87 | 45.24 | 7.68 | 2 |
| Std Deviation | 2.59 | 1.66 | 1.55 | 96 |

| | | | | |
|---|---|---|---|---|
| 4/10/2021 7:48 | 35.43 | 37.34 | 4.57 | 309 |
| 4/10/2021 7:49 | 35.48 | 37.42 | 4.82 | 321 |
| 4/10/2021 7:50 | 35.50 | 37.47 | 4.46 | 323 |
| 4/10/2021 7:51 | 35.51 | 37.49 | 5.12 | 322 |
| 4/10/2021 7:52 | 35.54 | 37.50 | 5.82 | 331 |
| 4/10/2021 7:53 | 35.58 | 37.55 | 6.16 | 327 |
| 4/10/2021 7:54 | 35.63 | 37.62 | 5.60 | 330 |
| 4/10/2021 7:55 | 35.67 | 37.67 | 5.35 | 315 |
| 4/10/2021 7:56 | 35.72 | 37.70 | 5.32 | 315 |
| 4/10/2021 7:57 | 35.75 | 37.69 | 6.43 | 325 |
| 4/10/2021 7:58 | 35.78 | 37.72 | 5.56 | 319 |
| 4/10/2021 7:59 | 35.82 | 37.79 | 6.50 | 327 |
| 4/10/2021 8:00 | 35.87 | 37.83 | 6.22 | 320 |
| 4/10/2021 8:01 | 35.90 | 37.87 | 7.01 | 323 |
| 4/10/2021 8:02 | 35.92 | 37.87 | 6.17 | 315 |
| 4/10/2021 8:03 | 35.95 | 37.90 | 5.88 | 325 |
| 4/10/2021 8:04 | 35.97 | 37.92 | 6.89 | 319 |
| 4/10/2021 8:05 | 36.02 | 38.00 | 6.63 | 326 |
| 4/10/2021 8:06 | 36.05 | 38.07 | 7.27 | 316 |
| 4/10/2021 8:07 | 36.10 | 38.15 | 6.56 | 324 |
| 4/10/2021 8:08 | 36.11 | 38.17 | 6.21 | 325 |
| 4/10/2021 8:09 | 36.17 | 38.25 | 7.24 | 333 |
| 4/10/2021 8:10 | 36.20 | 38.26 | 6.62 | 322 |
| 4/10/2021 8:11 | 36.21 | 38.31 | 7.09 | 323 |
| 4/10/2021 8:12 | 36.23 | 38.35 | 7.71 | 327 |
| 4/10/2021 8:13 | 36.30 | 38.41 | 8.75 | 332 |
| 4/10/2021 8:14 | 36.35 | 38.48 | 7.55 | 322 |
| 4/10/2021 8:15 | 36.39 | 38.55 | 6.94 | 327 |
| 4/10/2021 8:16 | 36.43 | 38.63 | 6.89 | 331 |
| 4/10/2021 8:17 | 36.42 | 38.68 | 5.87 | 331 |
| 4/10/2021 8:18 | 36.45 | 38.69 | 6.46 | 324 |
| 4/10/2021 8:19 | 36.47 | 38.74 | 6.28 | 324 |
| 4/10/2021 8:20 | 36.59 | 38.88 | 7.43 | 322 |
| 4/10/2021 8:21 | 36.68 | 38.98 | 6.98 | 324 |
| 4/10/2021 8:22 | 36.71 | 38.99 | 5.40 | 323 |
| 4/10/2021 8:23 | 36.70 | 39.03 | 6.04 | 327 |
| 4/10/2021 8:24 | 36.68 | 39.09 | 6.12 | 334 |
| 4/10/2021 8:25 | 36.73 | 39.13 | 6.11 | 323 |
| 4/10/2021 8:26 | 36.81 | 39.21 | 5.59 | 326 |
| 4/10/2021 8:27 | 36.84 | 39.29 | 6.72 | 332 |
| 4/10/2021 8:28 | 36.85 | 39.32 | 7.00 | 319 |
| 4/10/2021 8:29 | 36.88 | 39.35 | 6.61 | 328 |
| 4/10/2021 8:30 | 36.92 | 39.39 | 6.68 | 337 |
| 4/10/2021 8:31 | 36.85 | 39.37 | 6.42 | 336 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/10/2021 8:32 | 36.91 | 39.42 | 6.38 | 328 |
| 4/10/2021 8:33 | 36.99 | 39.52 | 6.90 | 328 |
| 4/10/2021 8:34 | 37.08 | 39.57 | 5.80 | 334 |
| 4/10/2021 8:35 | 37.14 | 39.63 | 6.07 | 345 |
| 4/10/2021 8:36 | 37.25 | 39.67 | 6.64 | 335 |
| 4/10/2021 8:37 | 37.28 | 39.71 | 8.10 | 326 |
| 4/10/2021 8:38 | 37.38 | 39.77 | 6.72 | 332 |
| 4/10/2021 8:39 | 37.40 | 39.83 | 5.67 | 337 |
| 4/10/2021 8:40 | 37.46 | 39.92 | 6.14 | 342 |
| 4/10/2021 8:41 | 37.42 | 39.94 | 6.97 | 330 |
| 4/10/2021 8:42 | 37.53 | 40.00 | 6.22 | 334 |
| 4/10/2021 8:43 | 37.57 | 40.10 | 5.78 | 331 |
| 4/10/2021 8:44 | 37.55 | 40.15 | 6.28 | 340 |
| 4/10/2021 8:45 | 37.58 | 40.18 | 6.94 | 337 |
| 4/10/2021 8:46 | 37.64 | 40.21 | 5.39 | 334 |
| 4/10/2021 8:47 | 37.67 | 40.26 | 5.89 | 339 |
| 4/10/2021 8:48 | 37.72 | 40.35 | 5.05 | 329 |
| 4/10/2021 8:49 | 37.77 | 40.42 | 6.02 | 337 |
| 4/10/2021 8:50 | 37.73 | 40.41 | 6.02 | 231 |
| 4/10/2021 8:51 | 37.77 | 40.41 | 6.33 | 221 |
| 4/10/2021 8:52 | 37.87 | 40.51 | 6.64 | 334 |
| 4/10/2021 8:53 | 37.96 | 40.62 | 7.16 | 340 |
| 4/10/2021 8:54 | 37.88 | 40.60 | 6.20 | 344 |
| 4/10/2021 8:55 | 37.86 | 40.66 | 6.71 | 349 |
| 4/10/2021 8:56 | 37.92 | 40.73 | 6.21 | 333 |
| 4/10/2021 8:57 | 38.03 | 40.82 | 7.73 | 338 |
| 4/10/2021 8:58 | 38.22 | 40.94 | 5.64 | 336 |
| 4/10/2021 8:59 | 38.28 | 40.98 | 5.79 | 330 |
| 4/10/2021 9:00 | 38.31 | 41.05 | 6.79 | 333 |
| 4/10/2021 9:01 | 38.30 | 41.12 | 7.71 | 334 |
| 4/10/2021 9:02 | 38.20 | 41.10 | 6.62 | 223 |
| 4/10/2021 9:03 | 38.22 | 41.11 | 6.33 | 343 |
| 4/10/2021 9:04 | 38.28 | 41.16 | 7.37 | 345 |
| 4/10/2021 9:05 | 38.29 | 41.21 | 7.29 | 335 |
| 4/10/2021 9:06 | 38.37 | 41.30 | 6.46 | 324 |
| 4/10/2021 9:07 | 38.30 | 41.33 | 8.15 | 342 |
| 4/10/2021 9:08 | 38.25 | 41.37 | 7.07 | 351 |
| 4/10/2021 9:09 | 38.26 | 41.43 | 6.05 | 344 |
| 4/10/2021 9:10 | 38.35 | 41.47 | 6.24 | 259 |
| 4/10/2021 9:11 | 38.53 | 41.57 | 6.53 | 335 |
| 4/10/2021 9:12 | 38.73 | 41.70 | 6.78 | 339 |
| 4/10/2021 9:13 | 38.70 | 41.81 | 7.63 | 221 |
| 4/10/2021 9:14 | 38.64 | 41.84 | 7.24 | 342 |
| 4/10/2021 9:15 | 38.63 | 41.90 | 8.12 | 340 |
| 4/10/2021 9:16 | 38.77 | 42.07 | 8.70 | 230 |
| 4/10/2021 9:17 | 38.83 | 42.15 | 9.20 | 229 |
| 4/10/2021 9:18 | 38.89 | 42.22 | 8.63 | 247 |
| 4/10/2021 9:19 | 38.99 | 42.32 | 8.13 | 344 |
| 4/10/2021 9:20 | 38.95 | 42.40 | 9.54 | 341 |
| 4/10/2021 9:21 | 38.90 | 42.45 | 9.45 | 333 |
| 4/10/2021 9:22 | 39.00 | 42.52 | 9.00 | 352 |
| 4/10/2021 9:23 | 39.01 | 42.55 | 9.96 | 231 |
| 4/10/2021 9:24 | 39.00 | 42.56 | 8.14 | 231 |
| 4/10/2021 9:25 | 39.03 | 42.59 | 8.93 | 347 |
| 4/10/2021 9:26 | 39.18 | 42.68 | 7.10 | 334 |
| 4/10/2021 9:27 | 39.26 | 42.75 | 10.07 | 331 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/10/2021 9:28 | 39.41 | 42.82 | 7.85 | 337 |
| 4/10/2021 9:29 | 39.71 | 43.02 | 7.32 | 340 |
| 4/10/2021 9:30 | 39.69 | 43.09 | 8.72 | 335 |
| 4/10/2021 9:31 | 39.68 | 43.14 | 9.31 | 343 |
| 4/10/2021 9:32 | 39.68 | 43.17 | 9.30 | 342 |
| 4/10/2021 9:33 | 39.69 | 43.19 | 7.15 | 344 |
| 4/10/2021 9:34 | 39.60 | 43.23 | 7.72 | 235 |
| 4/10/2021 9:35 | 39.53 | 43.24 | 8.45 | 345 |
| 4/10/2021 9:36 | 39.64 | 43.26 | 8.94 | 228 |
| 4/10/2021 9:37 | 39.73 | 43.35 | 10.90 | 228 |
| 4/10/2021 9:38 | 39.54 | 43.30 | 9.46 | 351 |
| 4/10/2021 9:39 | 39.57 | 43.27 | 9.30 | 235 |
| 4/10/2021 9:40 | 39.70 | 43.30 | 6.54 | 330 |
| 4/10/2021 9:41 | 39.83 | 43.39 | 8.41 | 329 |
| 4/10/2021 9:42 | 39.96 | 43.54 | 8.03 | 348 |
| 4/10/2021 9:43 | 40.02 | 43.63 | 8.00 | 330 |
| 4/10/2021 9:44 | 40.24 | 43.76 | 7.49 | 336 |
| 4/10/2021 9:45 | 40.41 | 43.95 | 8.52 | 338 |
| 4/10/2021 9:46 | 40.22 | 43.92 | 9.33 | 335 |
| 4/10/2021 9:47 | 40.11 | 43.84 | 11.12 | 116 |
| 4/10/2021 9:48 | 39.99 | 43.78 | 9.15 | 338 |
| 4/10/2021 9:49 | 39.90 | 43.78 | 6.76 | 341 |
| 4/10/2021 9:50 | 40.04 | 43.90 | 8.92 | 344 |
| 4/10/2021 9:51 | 40.14 | 44.01 | 8.88 | 336 |
| 4/10/2021 9:52 | 40.23 | 44.07 | 10.38 | 346 |
| 4/10/2021 9:53 | 40.17 | 44.06 | 12.59 | 233 |
| 4/10/2021 9:54 | 40.05 | 44.02 | 8.79 | 230 |
| 4/10/2021 9:55 | 40.26 | 44.10 | 7.76 | 336 |
| 4/10/2021 9:56 | 40.43 | 44.31 | 8.65 | 228 |
| 4/10/2021 9:57 | 40.50 | 44.50 | 9.91 | 343 |
| 4/10/2021 9:58 | 40.39 | 44.48 | 9.75 | 232 |
| 4/10/2021 9:59 | 40.39 | 44.43 | 10.67 | 345 |
| 4/10/2021 10:00 | 40.55 | 44.53 | 8.42 | 226 |
| 4/10/2021 10:01 | 40.60 | 44.66 | 7.75 | 339 |
| 4/10/2021 10:02 | 40.62 | 44.75 | 8.13 | 224 |
| 4/10/2021 10:03 | 40.74 | 44.82 | 11.52 | 338 |
| 4/10/2021 10:04 | 40.83 | 44.91 | 10.67 | 230 |
| 4/10/2021 10:05 | 40.75 | 44.88 | 10.37 | 331 |
| 4/10/2021 10:06 | 40.82 | 45.06 | 8.31 | 325 |
| 4/10/2021 10:07 | 41.07 | 45.31 | 11.38 | 329 |
| 4/10/2021 10:08 | 41.18 | 45.47 | 11.01 | 330 |
| 4/10/2021 10:09 | 41.21 | 45.56 | 9.81 | 229 |
| 4/10/2021 10:10 | 41.20 | 45.45 | 11.37 | 327 |
| 4/10/2021 10:11 | 41.12 | 45.44 | 10.53 | 334 |
| 4/10/2021 10:12 | 41.02 | 45.49 | 10.91 | 339 |
| 4/10/2021 10:13 | 40.87 | 45.35 | 10.76 | 350 |
| 4/10/2021 10:14 | 40.97 | 45.24 | 9.41 | 328 |
| 4/10/2021 10:15 | 41.47 | 45.44 | 8.88 | 233 |
| 4/10/2021 10:16 | 41.96 | 45.75 | 9.44 | 331 |
| 4/10/2021 10:17 | 42.23 | 46.00 | 9.93 | 323 |
| 4/10/2021 10:18 | 42.38 | 46.15 | 7.96 | 337 |
| 4/10/2021 10:19 | 42.62 | 46.22 | 9.29 | 325 |
| 4/10/2021 10:20 | 42.81 | 46.29 | 12.35 | 344 |
| 4/10/2021 10:21 | 42.74 | 46.08 | 12.84 | 349 |
| 4/10/2021 10:22 | 42.94 | 46.04 | 9.52 | 342 |
| 4/10/2021 10:23 | 43.33 | 46.20 | 8.61 | 339 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/10/2021 10:24 | 43.80 | 46.46 | 10.29 | 330 |
| 4/10/2021 10:25 | 43.86 | 46.48 | 13.79 | 346 |
| 4/10/2021 10:26 | 43.82 | 46.24 | 12.51 | 228 |
| 4/10/2021 10:27 | 43.98 | 46.27 | 12.23 | 228 |
| 4/10/2021 10:28 | 44.18 | 46.18 | 9.19 | 328 |
| 4/10/2021 10:29 | 44.61 | 46.35 | 10.98 | 334 |
| 4/10/2021 10:30 | 44.88 | 46.48 | 9.58 | 348 |
| 4/10/2021 10:31 | 44.88 | 46.26 | 11.50 | 337 |
| 4/10/2021 10:32 | 44.97 | 46.14 | 9.24 | 343 |
| 4/10/2021 10:33 | 45.16 | 46.12 | 11.17 | 228 |
| 4/10/2021 10:34 | 45.33 | 46.24 | 10.49 | 230 |
| 4/10/2021 10:35 | 45.59 | 46.40 | 10.65 | 344 |
| 4/10/2021 10:36 | 45.93 | 46.65 | 9.41 | 117 |
| 4/10/2021 10:37 | 46.21 | 46.85 | 10.69 | 118 |
| 4/10/2021 10:38 | 46.38 | 46.87 | 12.97 | 299 |
| 4/10/2021 10:39 | 46.56 | 46.95 | 10.91 | 336 |
| 4/10/2021 10:40 | 46.57 | 46.92 | 11.54 | 9 |
| 4/10/2021 10:41 | 46.50 | 46.76 | 11.27 | 334 |
| 4/10/2021 10:42 | 46.60 | 46.83 | 9.88 | 227 |
| 4/10/2021 10:43 | 46.60 | 46.87 | 10.50 | 340 |
| 4/10/2021 10:44 | 46.59 | 46.74 | 12.10 | 345 |
| 4/10/2021 10:45 | 46.71 | 46.87 | 12.38 | 117 |
| 4/10/2021 10:46 | 46.57 | 46.73 | 9.77 | 347 |
| 4/10/2021 10:47 | 46.58 | 46.57 | 9.04 | 347 |
| 4/10/2021 10:48 | 46.71 | 46.74 | 11.89 | 114 |
| 4/10/2021 10:49 | 46.54 | 46.68 | 13.47 | 24 |
| 4/10/2021 10:50 | 46.50 | 46.56 | 11.22 | 306 |
| 4/10/2021 10:51 | 46.83 | 46.86 | 8.07 | 341 |
| 4/10/2021 10:52 | 47.05 | 47.18 | 9.80 | 334 |
| 4/10/2021 10:53 | 47.01 | 47.14 | 10.59 | 225 |
| 4/10/2021 10:54 | 47.02 | 47.11 | 10.92 | 345 |
| 4/10/2021 10:55 | 47.20 | 47.31 | 10.35 | 344 |
| 4/10/2021 10:56 | 47.16 | 47.26 | 9.05 | 339 |
| 4/10/2021 10:57 | 47.13 | 47.15 | 9.91 | 233 |
| 4/10/2021 10:58 | 47.23 | 47.19 | 10.36 | 320 |
| 4/10/2021 10:59 | 47.35 | 47.45 | 9.65 | 342 |
| 4/10/2021 11:00 | 47.25 | 47.32 | 10.12 | 331 |
| 4/10/2021 11:01 | 47.37 | 47.36 | 8.27 | 228 |
| 4/10/2021 11:02 | 47.61 | 47.61 | 11.35 | 229 |
| 4/10/2021 11:03 | 47.75 | 47.76 | 13.05 | 227 |
| 4/10/2021 11:04 | 47.68 | 47.82 | 11.37 | 346 |
| 4/10/2021 11:05 | 47.55 | 47.77 | 12.61 | 232 |
| 4/10/2021 11:06 | 47.58 | 47.76 | 10.68 | 119 |
| 4/10/2021 11:07 | 47.81 | 47.93 | 9.74 | 346 |
| 4/10/2021 11:08 | 48.08 | 48.09 | 9.96 | 218 |
| 4/10/2021 11:09 | 48.11 | 48.18 | 9.21 | 229 |
| 4/10/2021 11:10 | 48.12 | 48.15 | 11.04 | 275 |
| 4/10/2021 11:11 | 48.00 | 48.02 | 9.53 | 341 |
| 4/10/2021 11:12 | 48.13 | 48.06 | 9.28 | 345 |
| 4/10/2021 11:13 | 48.42 | 48.37 | 8.41 | 328 |
| 4/10/2021 11:14 | 48.67 | 48.70 | 10.24 | 119 |
| 4/10/2021 11:15 | 48.77 | 49.06 | 8.03 | 123 |
| 4/10/2021 11:16 | 48.78 | 49.05 | 11.30 | 234 |
| 4/10/2021 11:17 | 48.85 | 49.13 | 7.68 | 348 |
| 4/10/2021 11:18 | 48.87 | 48.86 | 8.65 | 342 |
| 4/10/2021 11:19 | 48.56 | 48.51 | 10.15 | 350 |

| Channel Name: | Ambient_WB | Ambient_DB | Wind_Speed | Wind_Directio |
|---|---|---|---|---|
| Input Source/Channel Nu | DAS/ 101 | DAS/ 102 | DAS/ 201 | DAS/ 202 |
| Parameter: | | | | |
| Units: | F | F | MPH | Deg |
| Sensor Name: | LT0833 | LT0283 | MET101WS | MET101WD |
| 4/10/2021 11:20 | 48.60 | 48.45 | 9.51 | 339 |
| 4/10/2021 11:21 | 48.75 | 48.75 | 9.39 | 225 |
| 4/10/2021 11:22 | 48.91 | 48.91 | 9.53 | 340 |
| 4/10/2021 11:23 | 48.90 | 48.94 | 10.46 | 341 |
| 4/10/2021 11:24 | 48.87 | 48.85 | 9.08 | 345 |
| 4/10/2021 11:25 | 48.81 | 48.84 | 9.08 | 226 |
| 4/10/2021 11:26 | 48.86 | 48.89 | 11.34 | 344 |
| 4/10/2021 11:27 | 48.90 | 48.97 | 9.88 | 221 |
| 4/10/2021 11:28 | 49.00 | 49.05 | 12.10 | 345 |
| 4/10/2021 11:29 | 49.18 | 49.26 | 12.15 | 117 |
| 4/10/2021 11:30 | 49.02 | 49.12 | 11.29 | 341 |
| 4/10/2021 11:31 | 48.92 | 48.93 | 14.19 | 2 |
| 4/10/2021 11:32 | 48.99 | 49.03 | 10.92 | 345 |
| 4/10/2021 11:33 | 49.01 | 49.12 | 10.78 | 242 |
| 4/10/2021 11:34 | 48.90 | 49.02 | 12.69 | 119 |
| 4/10/2021 11:35 | 49.03 | 49.13 | 10.61 | 231 |
| 4/10/2021 11:36 | 49.23 | 49.18 | 8.50 | 326 |
| 4/10/2021 11:37 | 49.36 | 49.30 | 9.94 | 347 |
| 4/10/2021 11:38 | 49.68 | 49.66 | 11.77 | 338 |
| 4/10/2021 11:39 | 49.56 | 49.60 | 8.25 | 119 |
| 4/10/2021 11:40 | 50.08 | 50.27 | 12.83 | 8 |
| 4/10/2021 11:41 | 50.25 | 50.52 | 10.89 | 337 |
| 4/10/2021 11:42 | 50.23 | 50.22 | 10.71 | 240 |
| 4/10/2021 11:43 | 49.93 | 49.91 | 10.26 | 223 |
| 4/10/2021 11:44 | 50.01 | 49.93 | 9.09 | 336 |
| 4/10/2021 11:45 | 50.06 | 50.04 | 10.22 | 242 |
| 4/10/2021 11:46 | 49.91 | 49.89 | 10.45 | 335 |
| 4/10/2021 11:47 | 49.67 | 49.52 | 10.83 | 327 |
| 4/10/2021 11:48 | 49.41 | 49.27 | 8.17 | 326 |
| 4/10/2021 11:49 | 49.44 | 49.28 | 8.31 | 334 |
| 4/10/2021 11:50 | 49.67 | 49.72 | 9.49 | 124 |
| 4/10/2021 11:51 | 49.90 | 50.26 | 10.07 | 114 |
| 4/10/2021 11:52 | 49.82 | 50.15 | 9.34 | 227 |
| 4/10/2021 11:53 | 49.82 | 49.89 | 10.31 | 121 |
| 4/10/2021 11:54 | 49.89 | 49.82 | 10.47 | 92 |
| 4/10/2021 11:55 | 50.28 | 50.28 | 15.24 | 233 |
| 4/10/2021 11:56 | 50.31 | 50.35 | 12.91 | 140 |
| 4/10/2021 11:57 | 50.19 | 50.23 | 13.80 | 235 |
| 4/10/2021 11:58 | 50.01 | 49.88 | 9.94 | 342 |
| 4/10/2021 11:59 | 50.05 | 49.93 | 11.67 | 223 |
| 4/10/2021 12:00 | 50.45 | 50.51 | 10.80 | 229 |
| 4/10/2021 12:01 | 50.64 | 50.72 | 10.58 | 121 |
| 4/10/2021 12:02 | 51.13 | 51.55 | 11.69 | 21 |
| 4/10/2021 12:03 | 51.09 | 51.54 | 10.38 | 124 |
| 4/10/2021 12:04 | 51.03 | 51.24 | 12.35 | 341 |
| 4/10/2021 12:05 | 50.99 | 50.97 | 12.12 | 234 |
| 4/10/2021 12:06 | 50.91 | 50.74 | 13.23 | 117 |
| 4/10/2021 12:07 | 50.66 | 50.40 | 15.34 | 236 |
| 4/10/2021 12:08 | 50.70 | 50.42 | 9.48 | 226 |
| 4/10/2021 12:09 | 50.75 | 50.74 | 11.54 | 127 |
| 4/10/2021 12:10 | 51.11 | 51.32 | 11.72 | 346 |
| 4/10/2021 12:11 | 51.13 | 51.16 | 8.43 | 231 |
| 4/10/2021 12:12 | 50.85 | 50.94 | 10.11 | 230 |

| | MET-AI01 COR.UNIT1@NET0 JEMSTAR GROSS MW CORRECTED MW |
|---|---|
| Average | 234.83 |
| Maximum | 235.27 |
| Minimum | 234.37 |
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| 4/9/2021 02:17:00 | 234.82 |

| | MET-AI01 COR.UNIT1@NET0<br>JEMSTAR GROSS MW CORRECTED<br>MW |
|---|---|
| Average | 234.86 |
| Maximum | 235.27 |
| Minimum | 234.82 |
| 4/10/2021 07:50:00 | 234.82 |
| 4/10/2021 07:51:00 | 234.82 |
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| 4/10/2021 10:54:00 | 234.82 |
| 4/10/2021 10:55:00 | 234.82 |
| 4/10/2021 10:56:00 | 234.82 |
| 4/10/2021 10:57:00 | 234.82 |
| 4/10/2021 10:58:00 | 234.82 |
| 4/10/2021 10:59:00 | 234.82 |
| 4/10/2021 11:00:00 | 234.82 |
| 4/10/2021 11:01:00 | 234.82 |
| 4/10/2021 11:02:00 | 234.82 |
| 4/10/2021 11:03:00 | 234.82 |
| 4/10/2021 11:04:00 | 234.82 |
| 4/10/2021 11:05:00 | 234.82 |
| 4/10/2021 11:06:00 | 234.82 |
| 4/10/2021 11:07:00 | 234.82 |
| 4/10/2021 11:08:00 | 235.27 |
| 4/10/2021 11:09:00 | 234.82 |
| 4/10/2021 11:10:00 | 234.82 |
| 4/10/2021 11:11:00 | 234.82 |
| 4/10/2021 11:12:00 | 234.82 |
| 4/10/2021 11:13:00 | 234.82 |
| 4/10/2021 11:14:00 | 234.82 |
| 4/10/2021 11:15:00 | 235.27 |
| 4/10/2021 11:16:00 | 234.82 |
| 4/10/2021 11:17:00 | 234.82 |
| 4/10/2021 11:18:00 | 234.82 |
| 4/10/2021 11:19:00 | 234.82 |
| 4/10/2021 11:20:00 | 235.27 |

| | |
|---|---|
| 4/10/2021 11:21:00 | 234.82 |
| 4/10/2021 11:22:00 | 234.82 |
| 4/10/2021 11:23:00 | 234.82 |
| 4/10/2021 11:24:00 | 234.82 |
| 4/10/2021 11:25:00 | 234.82 |
| 4/10/2021 11:26:00 | 234.82 |
| 4/10/2021 11:27:00 | 234.82 |
| 4/10/2021 11:28:00 | 234.82 |
| 4/10/2021 11:29:00 | 234.82 |
| 4/10/2021 11:30:00 | 234.82 |
| 4/10/2021 11:31:00 | 235.27 |
| 4/10/2021 11:32:00 | 234.82 |
| 4/10/2021 11:33:00 | 235.27 |
| 4/10/2021 11:34:00 | 234.82 |
| 4/10/2021 11:35:00 | 234.82 |
| 4/10/2021 11:36:00 | 235.27 |
| 4/10/2021 11:37:00 | 234.82 |
| 4/10/2021 11:38:00 | 234.82 |
| 4/10/2021 11:39:00 | 235.27 |
| 4/10/2021 11:40:00 | 234.82 |
| 4/10/2021 11:41:00 | 234.82 |
| 4/10/2021 11:42:00 | 234.82 |
| 4/10/2021 11:43:00 | 234.82 |
| 4/10/2021 11:44:00 | 234.82 |
| 4/10/2021 11:45:00 | 234.82 |
| 4/10/2021 11:46:00 | 234.82 |
| 4/10/2021 11:47:00 | 234.82 |
| 4/10/2021 11:48:00 | 235.27 |
| 4/10/2021 11:49:00 | 234.82 |
| 4/10/2021 11:50:00 | 234.82 |
| 4/10/2021 11:51:00 | 234.82 |
| 4/10/2021 11:52:00 | 234.82 |
| 4/10/2021 11:53:00 | 234.82 |
| 4/10/2021 11:54:00 | 234.82 |
| 4/10/2021 11:55:00 | 234.82 |
| 4/10/2021 11:56:00 | 234.82 |
| 4/10/2021 11:57:00 | 235.27 |
| 4/10/2021 11:58:00 | 234.82 |
| 4/10/2021 11:59:00 | 234.82 |
| 4/10/2021 12:00:00 | 234.82 |
| 4/10/2021 12:01:00 | 235.27 |
| 4/10/2021 12:02:00 | 234.82 |
| 4/10/2021 12:03:00 | 234.82 |
| 4/10/2021 12:04:00 | 234.82 |
| 4/10/2021 12:05:00 | 234.82 |
| 4/10/2021 12:06:00 | 234.82 |
| 4/10/2021 12:07:00 | 234.82 |
| 4/10/2021 12:08:00 | 234.82 |
| 4/10/2021 12:09:00 | 234.82 |
| 4/10/2021 12:10:00 | 234.82 |
| 4/10/2021 12:11:00 | 234.82 |
| 4/10/2021 12:12:00 | 234.82 |
| 4/10/2021 12:13:00 | 234.82 |

# APPENDIX C: TEST LOG

Date 4/28/21-4/29/21
Site ML2 / ML1

| Time | Acitvity |
|---|---|
| 22:00 | Start of Test at ML2 |
| 22:18 | Airplane Noise |
| 23:08 | Airplane noise |
| 24:00 | End of Test at ML2 |
| 0:18 | Start of Test at ML1 |
| 0220 | End of Test at ML1 |

Date 4/10/21
Site ML1/ML2

| Time | Acitvity |
|---|---|
| 07:30 | Start of Test at ML2 |
| 07:58 | Owner truck started |
| | Bird chirping - constant |
| 08:20 | Geese overhead |
| 09:43 | Owners truck started |
| 09:53 | End of Test |
| 10:12 | Start of test at ML2 |
| | Constant road traffic |
| 10:15 | Cows bellowing |
| 10:20 | |
| 10:43 | > Heavy goods vehicle |
| 10:44 | |
| 10:49 | Cows bellowing |
| 11:57 | Motor cycle |
| 12:05 | More bellowing |
| 12:12 | End of Test at ML2 |

# APPENDIX D: CALIBRATION CERTIFICATES

**Brüel & Kjær**
**North America Inc.**

The Brüel & Kjær Calibration Laboratory
3079 Premiere Parkway Suite 120
Duluth, GA 30097
Telephone: 770/209-6907
Fax: 770/447-4033
Web site address: http://www.bkhome.com

ACCREDITED
Calibration Certificate Number 1568.01

# CERTIFICATE OF CALIBRATION

Certificate No: CAS-437893-H1G1P7-301



## CALIBRATION OF:

| | | | |
|---|---|---|---|
| Sound Level Meter: | Brüel & Kjær | 2250L | Serial No: 2766765 |
| Microphone: | Brüel & Kjær | 4950 | Serial No: 2745841 |
| Preamplifier: | Brüel & Kjær | ZC-0032 | Serial No: 14473 |
| Supplied Calibrator: | Brüel & Kjær | 4231 | Serial No: 2376289 |
| Software version: | BZ7222 Version 4.7.4 | | |

## CLIENT:

Clean Air Engineering
7936 Conner Road
Powell, TN 37849

## CALIBRATION CONDITIONS:

Preconditioning: 4 hours at 23 ± 3 °C
Environment conditions See actual values in Environmental Condition sections

## SPECIFICATIONS:

This document certifies that the instrument as listed under "Model/Serial Number" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95%. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurement. The calibration of the listed instrumentation, was accomplished using a test system which conforms with the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and ISO 10012-1. For "as received" and/or "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation This Certificate and attached data pages shall not be reproduced, except in full, without the written approval of the Brüel and Kjær Calibration Laboratory-Duluth, GA. Results relate only to the items tested. This instrument has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

## PROCEDURE:

Brüel and Kjær Model 3630 Sound Level Meter Calibration System Software 7763 Version 8.0 - DB: 8.00 Test Collection 2250-L-4950.

## RESULTS:

| As Received Condition | As Received Data | Final Data |
|---|---|---|
| _X_ Received in good condition | _X_ Within acceptance criteria | _X_ Within acceptance criteria |
| ___ Damaged - See attached report | ___ Outside acceptance criteria | ___ Limited test - See attached details |
| | ___ Inoperative | |
| | ___ Data not taken | |

Date of Calibration: 24 Feb. 2020

Certificate issued: 24 Feb. 2020

Kyle Chancey
Calibration Technician

John Athlik
Quality Representative

# Instruments

| Category: | Type: | Manufacturer: | Serial No.: | Next Calibration Date: | Traceable to: |
|---|---|---|---|---|---|
| Generator | Pulse Generator | Brüel & Kjær | 2604447 | 02 Jun. 2020 | CAS-388250-K5F5M6-311 |
| Calibrator | 4226 | Brüel & Kjær | 2590978 | 31 Mar. 2020 | CAS-356856-X2Q0T5-902 |
| AmplifierDivider | 3111 Output Module | Brüel & Kjær | 2590603 | 02 Jun. 2020 | CAS-388250-K5F5M6-311 |
| Adaptor | WA0302A, 12 pF | Brüel & Kjær | 2460917 | 31 Jan. 2021 | 436123 |
| Voltmeter | DMM34970A | Agilent | MY44076819 | 31 Aug. 2020 | 444427 |

## Preliminary inspection

Visually inspect instrument, and operate all relevant controls. (section 5)

| | Result |
|---|---|
| Visual inspection | OK |

## Environmental conditions, Prior to calibration

Actual environmental conditions prior to calibration. (section 7)

| | Expected | Accept - Limit | Accept + Limit | Measured [Deg / kPa / %RH] |
|---|---|---|---|---|
| Air temperature | 23.00 | -3.00 | 3.00 | 23.00 |
| Air pressure | 101.30 | -21.30 | 3.70 | 98.00 |
| Relative humidity | 50.00 | -25.00 | 20.00 | 30.00 |

## Reference information

Information about reference range, level and channel. (section 22.h + 22.m)

| | Value [dB SPL] |
|---|---|
| Reference sound pressure level | 94 |
| Reference level range | 140 |
| Channel number | 1 |

## Indication at the calibration check frequency

Measure and adjust sound level meter using the supplied calibrator. (section 10 + 22.m)

| | Expected [dB SPL / Hz] | Measured [dB SPL / Hz] | Uncertainty [dB] |
|---|---|---|---|
| Calibration check frequency (supplied calibrator) | 1000.00 | 1000.00 | 1.00 |
| Initial indication (supplied calibrator) | 94.00 | 93.86 | 0.14 |
| Adjusted indication (supplied calibrator) | 94.00 | 93.86 | 0.14 |

# Electrical signal tests of frequency weightings, A weighting

Frequency response measured with electrical signal relative to level at 1 kHz in reference range. (section 13)
Electrical and acoustical response and body influence corrections are adjusted with the respective correction values at the reference frequency, in accordance with section 13.6

| | Input Level | Expected | Measured | Response Corr. | Body Influence | Corr. Measured | Accept - Limit | Accept + Limit | Deviation | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|
| | [dBV] | [dB SPL] | [dB SPL] | [dB] | [dB] | [dB SPL] | [dB] | [dB] | [dB] | [dB] |
| 1000Hz, Ref. | -24.33 | 95.00 | 95.00 | 0.00 | 0.00 | 95.00 | -0.5 | 0.5 | 0.00 | 0.12 |
| 63.096Hz | 1.87 | 95.00 | 95.07 | 0.00 | 0.09 | 95.16 | -1.0 | 1.0 | 0.16 | 0.12 |
| 125.89Hz | -8.23 | 95.00 | 95.03 | 0.00 | 0.09 | 95.12 | -1.0 | 1.0 | 0.12 | 0.12 |
| 251.19Hz | -15.73 | 95.00 | 94.98 | 0.00 | 0.15 | 95.13 | -1.0 | 1.0 | 0.13 | 0.12 |
| 501.19Hz | -21.13 | 95.00 | 94.97 | 0.00 | 0.31 | 95.28 | -1.0 | 1.0 | 0.28 | 0.12 |
| 1995.3Hz | -25.53 | 95.00 | 94.99 | 0.01 | 0.08 | 95.08 | -1.0 | 1.0 | 0.08 | 0.12 |
| 3981.1Hz | -25.33 | 95.00 | 94.91 | 0.07 | 0.03 | 95.01 | -1.0 | 1.0 | 0.01 | 0.12 |
| 7943.3Hz | -23.23 | 95.00 | 94.68 | 0.32 | -0.08 | 94.92 | -2.5 | 1.5 | -0.08 | 0.12 |
| 15849Hz | -17.73 | 95.00 | 95.58 | -0.60 | 0.08 | 95.06 | -16.0 | 2.5 | 0.06 | 0.12 |

# Electrical signal tests of frequency weightings, C weighting

Frequency response measured with electrical signal relative to level at 1 kHz in reference range. (section 13)
Electrical and acoustical response and body influence corrections are adjusted with the respective correction values at the reference frequency, in accordance with section 13.6

| | Input Level | Expected | Measured | Response Corr. | Body Influence | Corr. Measured | Accept - Limit | Accept + Limit | Deviation | Uncertainty |
|---|---|---|---|---|---|---|---|---|---|---|
| | [dBV] | [dB SPL] | [dB SPL] | [dB] | [dB] | [dB SPL] | [dB] | [dB] | [dB] | [dB] |
| 1000Hz, Ref. | -24.33 | 95.00 | 95.00 | 0.00 | 0.00 | 95.00 | -0.5 | 0.5 | 0.00 | 0.12 |
| 63.096Hz | -23.53 | 95.00 | 95.03 | 0.00 | 0.09 | 95.12 | -1.0 | 1.0 | 0.12 | 0.12 |
| 125.89Hz | -24.13 | 95.00 | 95.05 | 0.00 | 0.09 | 95.14 | -1.0 | 1.0 | 0.14 | 0.12 |
| 251.19Hz | -24.33 | 95.00 | 95.01 | 0.00 | 0.15 | 95.16 | -1.0 | 1.0 | 0.16 | 0.12 |
| 501.19Hz | -24.33 | 95.00 | 95.04 | 0.00 | 0.31 | 95.35 | -1.0 | 1.0 | 0.35 | 0.12 |
| 1995.3Hz | -24.13 | 95.00 | 95.02 | 0.01 | 0.08 | 95.11 | -1.0 | 1.0 | 0.11 | 0.12 |
| 3981.1Hz | -23.53 | 95.00 | 94.92 | 0.07 | 0.03 | 95.02 | -1.0 | 1.0 | 0.02 | 0.12 |
| 7943.3Hz | -21.33 | 95.00 | 94.69 | 0.32 | -0.08 | 94.93 | -2.5 | 1.5 | -0.07 | 0.12 |
| 15849Hz | -15.83 | 95.00 | 95.56 | -0.60 | 0.08 | 95.04 | -16.0 | 2.5 | 0.04 | 0.12 |

# Level linearity on the reference level range, Upper

Level linearity in reference range, measured at 8 kHz until overload. (section 16)

| | Expected | Measured | Accept - Limit | Accept + Limit | Deviation | Uncertainty |
|---|---|---|---|---|---|---|
| | [dB SPL] | [dB SPL] | [dB] | [dB] | [dB] | [dB] |
| 94 dB | 94.00 | 94.00 | -0.2 | 0.2 | 0.00 | 0.13 |
| 99 dB | 99.00 | 99.00 | -0.8 | 0.8 | 0.00 | 0.13 |
| 104 dB | 104.00 | 104.00 | -0.8 | 0.8 | 0.00 | 0.13 |
| 109 dB | 109.00 | 109.01 | -0.8 | 0.8 | 0.01 | 0.13 |
| 114 dB | 114.00 | 114.01 | -0.8 | 0.8 | 0.01 | 0.13 |
| 119 dB | 119.00 | 119.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 124 dB | 124.00 | 124.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 129 dB | 129.00 | 129.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 134 dB | 134.00 | 134.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 135 dB | 135.00 | 135.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 136 dB | 136.00 | 136.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 137 dB | 137.00 | 137.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 138 dB | 138.00 | 138.02 | -0.8 | 0.8 | 0.02 | 0.13 |
| 139 dB | 139.00 | 139.02 | -0.8 | 0.8 | 0.02 | 0.13 |

# Level linearity on the reference level range, Lower

Level linearity in reference range, measured at 8 kHz down to lower limit, or until underrange. (section 16)

| | Expected | Measured | Accept - Limit | Accept + Limit | Deviation | Uncertainty |
|---|---|---|---|---|---|---|
| | [dB SPL] | [dB SPL] | [dB] | [dB] | [dB] | [dB] |
| 94 dB | 94.00 | 94.00 | -0.2 | 0.2 | 0.00 | 0.13 |
| 89 dB | 89.00 | 88.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 84 dB | 84.00 | 83.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 79 dB | 79.00 | 79.00 | -0.8 | 0.8 | 0.00 | 0.13 |
| 74 dB | 74.00 | 73.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 69 dB | 69.00 | 68.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 64 dB | 64.00 | 63.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 59 dB | 59.00 | 58.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 54 dB | 54.00 | 53.99 | -0.8 | 0.8 | -0.01 | 0.13 |
| 49 dB | 49.00 | 49.00 | -0.8 | 0.8 | 0.00 | 0.13 |
| 44 dB | 44.00 | 44.01 | -0.8 | 0.8 | 0.01 | 0.13 |
| 39 dB | 39.00 | 39.02 | -0.8 | 0.8 | 0.02 | 0.24 |
| 34 dB | 34.00 | 34.07 | -0.8 | 0.8 | 0.07 | 0.24 |
| 30 dB | 30.00 | 30.16 | -0.8 | 0.8 | 0.16 | 0.24 |
| 29 dB | 29.00 | 29.20 | -0.8 | 0.8 | 0.20 | 0.24 |
| 28 dB | 28.00 | 28.25 | -0.8 | 0.8 | 0.25 | 0.24 |
| 27 dB | 27.00 | 27.31 | -0.8 | 0.8 | 0.31 | 0.24 |
| 26 dB | 26.00 | 26.39 | -0.8 | 0.8 | 0.39 | 0.24 |
| 25 dB | 25.00 | 25.48 | -0.8 | 0.8 | 0.48 | 0.24 |
| 24 dB | 24.00 | 24.55 | -0.8 | 0.8 | 0.55 | 0.24 |

# Overload indication

Overload indication in the least sensitive range determined with a 4 kHz positive/negative half-cycle signal. (section 20)

| | Measured / Input Level | Accept - Limit | Accept + Limit | Deviation | Uncertainty |
|---|---|---|---|---|---|
| | [dB SPL] | [dB] | [dB] | [dB] | [dB] |
| Continuous | 140.00 | -0.5 | 0.5 | 0.00 | 0.20 |
| Half-sine, Positive | 141.08 | -10.0 | 10.0 | 1.08 | 0.20 |
| Half-sine, Negative | 141.28 | -10.0 | 10.0 | 1.28 | 0.20 |
| Difference | 141.28 | -1.5 | 1.5 | 0.20 | 0.24 |

# Long-term stability, 1. relative

Long-term stability over 25 to 35 minutes, with steady 1kHz signal at reference level. (section 15)
Relative to prior adjustment to reference level indication.

| | Measured | Accept - Limit | Accept + Limit | Deviation | Timestamp | Uncertainty |
|---|---|---|---|---|---|---|
| | [dB SPL / Min] | [dB / Min] | [dB / Min] | [dB / Min] | | [dB] |
| Measurement | 94.00 | -0.1 | 0.1 | 0.00 | 2020-02-24 09:25:26 | 0.10 |
| Time passed | 18.46 | 0.0 | 35.0 | 18.46 | | 0.00 |

# High-level stability

High-level stability over 5 minutes, with steady 1kHz signal, 1dB below upper boundary. (section 21)

| | Measured | Accept - Limit | Accept + Limit | Deviation | Uncertainty |
|---|---|---|---|---|---|
| | [dB SPL] | [dB] | [dB] | [dB] | [dB] |
| High-level, Ref. | 139.00 | -0.5 | 0.5 | 0.00 | 0.10 |
| High-level, after 5min | 139.00 | -0.1 | 0.1 | 0.00 | 0.10 |

# Long-term stability, 2. relative

Long-term stability over 25 to 35 minutes, with steady 1kHz signal at reference level. (section 15)
Relative to prior adjustment to reference level indication.

| | Measured | Accept - Limit | Accept + Limit | Deviation | Timestamp | Uncertainty |
|---|---|---|---|---|---|---|
| | [dB SPL/ Min] | [dB / Min] | [dB / Min] | [dB / Min] | | [dB] |
| Wait | 25.11 | 25.0 | 120.0 | 25.11 | | 0.00 |
| Measurement | 94.00 | -0.1 | 0.1 | 0.00 | 2020-02-24 09:32:14 | 0.10 |

# Environmental conditions, Following calibration

Actual environmental conditions following calibration. (section 7)

| | Expected | Accept - Limit | Accept + Limit | Measured |
|---|---|---|---|---|
| | | | | [Deg / kPa / %RH] |
| Air temperature | 23.00 | -3.00 | 3.00 | 23.00 |
| Air pressure | 101.30 | -21.30 | 3.70 | 98.00 |
| Relative humidity | 50.00 | -25.00 | 20.00 | 30.00 |

Brüel & Kjær
North America Inc.

The Bruel and Kjaer Calibration Laboratory
3079 Premiere Parkway Suite 120
Duluth, GA 30097
Telephone: 770-209-6907
Fax: 770-447-4033
Web site address: http://www.bksv.com

ACCREDITED

**Calibration Certificate # 1568.01**

# CERTIFICATE OF CALIBRATION

No.: CAS-437893-H1G1P7-901



## CALIBRATION OF:

Microphone: Brüel & Kjær Type 4950 Serial No. 2745841

## CUSTOMER:

Clean Air Engineering
7936 Conner Road
Powell, TN 37849

## CALIBRATION CONDITIONS:

| | | | |
|---|---|---|---|
| Environment conditions: | Air temperature: | 23 | °C |
| | Air pressure: | 97.325 | kPa |
| | Relative Humidity: | 39 | %RH |
| Applied polarization voltage: | 0 Vdc | | |

## SPECIFICATIONS:

This document certifies that the instrument as listed under "Type" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurements. The calibration of the listed transducer was accomplished using a test system which conforms to the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and guidelines of ISO 10012-1. For "as received" and "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation. This Certificate and attached data pages shall not be reproduced, except in full, without written approval of the Bruel and Kjaer Calibration Laboratory-Duluth, GA. Results relate only to the items tested. The transducer has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

## PROCEDURE:

The measurements have been performed with the assistance of Brüel & Kjær Microphone Calibration System B&K 9721 with application software WT9649 and WT9650 version 5.2 using calibration procedure: 4950-S251-FF-01

## RESULTS:

- [X] "As Received" Data: Within Acceptance Criteria
- [ ] "As Received" Data: Outside Acceptance Criteria
- [X] "Final" Data : Within Acceptance Criteria
- [ ] "Final" Data : Outside Acceptance Criteria

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k=2$ providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from standards, calibration method, effect of environmental conditions and any short term contribution from the device under calibration.

Date of Calibration: 26 February 2020

Certificate issued: 26 February 2020

Harold Williams

Calibration Technician

Quality Representative

## Sensitivity

| | | | | |
|---|---|---|---|---|
| Nominal sensitivity: | -26 | dB re. 1V/Pa | +/- | 2 dB |
| Sensitivity at calibration conditions: | -27.19 | dB re. 1V/Pa | or | 43.68 mV/Pa |
| Sensitivity at reference conditions: | -27.27 | dB re. 1V/Pa | or | 43.28 mV/Pa |
| Uncertainty: | +/- 0.12 | dB | | |
| Correction factor K at reference conditions: | 1.27 | dB | | |
| Calibration Frequency: | 251.19 | Hz | | |

**Reference Conditions:**
Pressure: 101.3 kPa
Temperature: 23 °C
Relative Humidity: 50%

## Traceable references

| Type | Serial no | Cal. date | Due date | Calibrated by | Trace number |
|---|---|---|---|---|---|
| 4180 | 2602440 | 2019-05-08 | 2021-05-31 | DPLA | M2.10-1304-3.1 |

## Condition "As Received":

GOOD

## Comments:

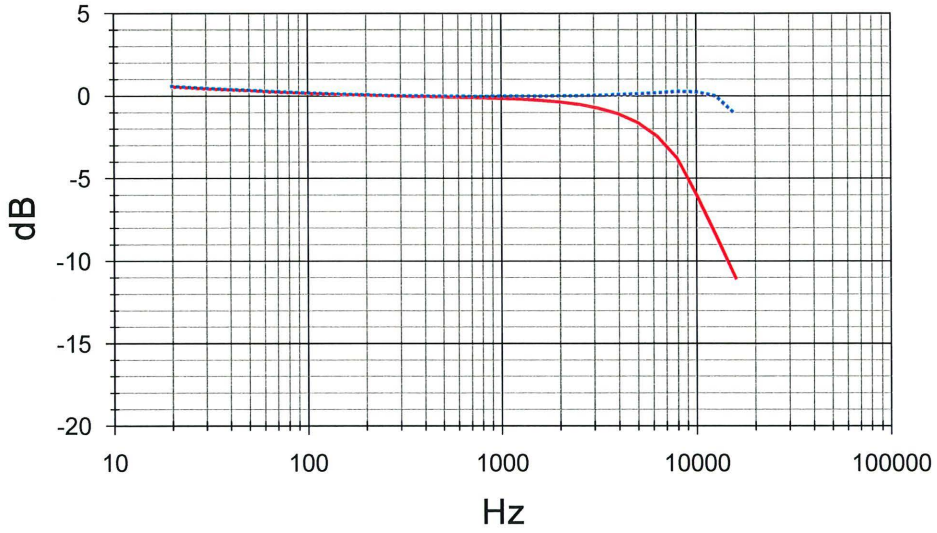
## Normalized Frequency Response

Normalization Frequency: 251.19 Hz
Actuator Response is valid at Calibration Conditions
Applied Sound Field Correction: Free-field Corrections with Grid at 0 degrees Incidence

| Frequency [Hz] | Actuator Response [dB] | Sound Field Response [dB] | Combined Uncertainty [dB] | Upper Tolerance [dB] | Lower Tolerance [dB] | Tolerance Exceeded |
|---|---|---|---|---|---|---|
| 19.9526 | 0.54 | 0.54 | 0.36 | 2.00 | -2.00 | |
| 25.1189 | 0.47 | 0.47 | 0.28 | 2.00 | -2.00 | |
| 31.6228 | 0.41 | 0.41 | 0.20 | 2.00 | -2.00 | |
| 39.8107 | 0.35 | 0.35 | 0.19 | 2.00 | -2.00 | |
| 50.1187 | 0.31 | 0.31 | 0.17 | 2.00 | -2.00 | |
| 63.0957 | 0.24 | 0.24 | 0.16 | 2.00 | -2.00 | |
| 79.4328 | 0.19 | 0.19 | 0.16 | 2.00 | -2.00 | |
| 100.000 | 0.14 | 0.14 | 0.16 | 2.00 | -2.00 | |
| 125.893 | 0.10 | 0.10 | 0.16 | 2.00 | -2.00 | |
| 158.489 | 0.06 | 0.06 | 0.16 | 2.00 | -2.00 | |
| 199.526 | 0.04 | 0.04 | 0.16 | 2.00 | -2.00 | |
| 251.189 | 0.00 | 0.00 | 0.02 | 2.00 | -2.00 | |
| 316.228 | -0.04 | -0.03 | 0.16 | 2.00 | -2.00 | |
| 398.107 | -0.05 | -0.04 | 0.16 | 2.00 | -2.00 | |
| 501.187 | -0.08 | -0.05 | 0.16 | 2.00 | -2.00 | |
| 630.957 | -0.10 | -0.05 | 0.16 | 2.00 | -2.00 | |
| 794.328 | -0.13 | -0.06 | 0.16 | 2.00 | -2.00 | |
| 1000.00 | -0.16 | -0.05 | 0.16 | 2.00 | -2.00 | |
| 1258.93 | -0.20 | -0.04 | 0.16 | 2.00 | -2.00 | |
| 1584.89 | -0.27 | -0.04 | 0.16 | 2.00 | -2.00 | |
| 1995.26 | -0.37 | -0.03 | 0.17 | 2.00 | -2.00 | |
| 2511.89 | -0.51 | -0.01 | 0.17 | 2.00 | -2.00 | |
| 3162.28 | -0.75 | 0.00 | 0.18 | 2.00 | -2.00 | |
| 3981.07 | -1.09 | 0.05 | 0.19 | 2.00 | -2.00 | |
| 5011.87 | -1.63 | 0.09 | 0.19 | 2.00 | -2.00 | |
| 6309.57 | -2.47 | 0.16 | 0.20 | 2.00 | -2.00 | |
| 7943.28 | -3.78 | 0.24 | 0.21 | 2.00 | -2.00 | |
| 10000.0 | -6.00 | 0.21 | 0.27 | 2.00 | -2.00 | |
| 12589.3 | -8.47 | -0.03 | 0.34 | 2.00 | -2.00 | |
| 15848.9 | -11.05 | -1.13 | 0.43 | 2.00 | -2.00 | |

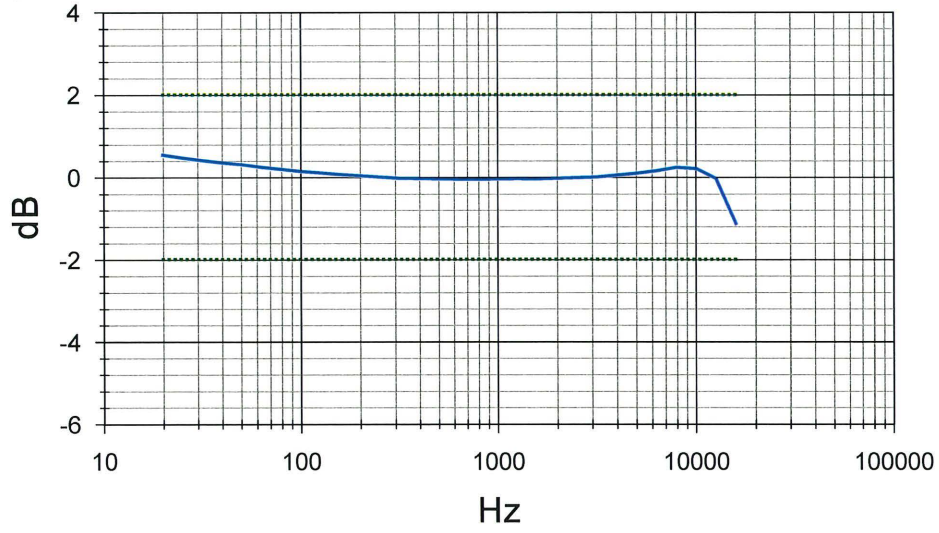
## Measured Frequency Response

Solid curve: Actuator response Dotted curve: Sound field response
Applied Sound Field Correction: Free-field Corrections with Grid at 0 degrees Incidence




## Result Response

Solid curve: Sound field response Dotted curves: Tolerance limits
Applied Sound Field Correction: Free-field Corrections with Grid at 0 degrees Incidence



**Brüel & Kjær**
**North America Inc.**

The Bruel and Kjaer Calibration Laboratory
3079 Premiere Parkway Suite 120
Duluth, GA 30097
Telephone: 770-209-6907
Fax: 770-447-4033
Web site address: http://www.bksv.com

ACCREDITED

**Calibration Certificate # 1568.01**

# CERTIFICATE OF CALIBRATION

No.: CAS-437893-H1G1P7-401



## CALIBRATION OF:

| | | | | | |
|---|---|---|---|---|---|
| Calibrator: | Brüel & Kjær | Type 4231<br>IEC Class: 1 | | Serial No.: | 2376289 |

## CUSTOMER:

Clean Air Engineering
7936 Conner Road
Powell, TN 37849

## CALIBRATION CONDITIONS:

| | | | |
|---|---|---|---|
| Environment conditions: | Air temperature: | 23.8 | °C |
| | Air pressure: | 97.18 | kPa |
| | Relative Humidity: | 34.6 | %RH |

## SPECIFICATIONS:

This document certifies that the acoustic calibrator as listed under "Type" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurements. The calibration of the listed transducer was accomplished using a test system which conforms to the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and guidelines of ISO 10012-1. For "as received" and "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation. This Certificate and attached data pages shall not be reproduced, except in full, without written approval of the Bruel and Kjaer Calibration Laboratory-Duluth, GA. Results relate only to the items tested. The transducer has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants. The acoustic calibrator has been calibrated in accordance with the requirements as specified in IEC60942.

## PROCEDURE:

The measurements have been performed with the assistance of Brüel & Kjær acoustic calibrator calibration application Software version 2.3.4 Type 7794 using calibration procedure 4231 Complete

## RESULTS:

- [X] "As Received" Data: Within Acceptance Criteria
- [ ] "As Received" Data: Outside Acceptance Criteria
- [X] "Final" Data : Within Acceptance Criteria
- [ ] "Final" Data : Outside Acceptance Criteria

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with EA-4/02from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the calibrator under calibration.

Date of Calibration: February 25, 2020

Certificate issued: February 25, 2020

Meshaun Hobbs
Calibration Technician

Harold Williams
Quality Representative

## Sound Pressure Levels

**All stated values are valid at environmental reference conditions**

| Nominal Level [dB] | Accept Limit Lower [dB] | Accept Limit Upper [dB] | Measured Level [dB] | Measurement Uncertainty [dB] |
|---|---|---|---|---|
| 94 | 93.80 | 94.20 | 93.98 | 0.12 |
| 114 | 113.80 | 114.20 | 114.02 | 0.12 |

## Frequency

| Nominal Frequency [Hz] | Accept Limit Lower [Hz] | Accept Limit Upper [Hz] | Measured Frequency [Hz] | Measurement Uncertainty [Hz] |
|---|---|---|---|---|
| 1000 | 999.00 | 1001.00 | 999.96 | 0.10 |

## Total Distortion*

**Distortion mode:** [X] **TD*** [ ] **THD***

| Calibration Level [dB]* | Accept Limit [%]* | Measured Distortion [%]* | Measurement Uncertainty [%]* |
|---|---|---|---|
| 94 | 1.00 | 0.70 | 0.13 |
| 114 | 1.00 | 0.14 | 0.13 |

## Environmental Reference Conditions:

Pressure: 101.3 kPa, Temperature: 23 °C, Relative Humidity: 50%

## Instrument List

| Type | Description | Serial no | Cal. date | Due date | Calibrated by | Trace number |
|---|---|---|---|---|---|---|
| 3560 | PULSE Analyzer | 2723320 | 2019-10-17 | 2020-10-31 | JCA | CAS-413598-Q8W9Z2-101 |
| 9545 | Transfer Microphone | 3 | 2019-10-16 | 2020-10-31 | MH | CAS-413598-Q8W9Z2-401 |
| 4228 | Reference Sound Source | 1618502 | 2019-04-05 | 2021-04-30 | W.Shipman | CAS-375162-C8J4Z3-705 |

During the calibration the calibrator has been loaded by the load volume of the Transfer Microphone. The load volumes for a number of different types of Transfer Microphones are listed in the table below.
For Brüel & Kjær Pistonphones types 4220 and 4228 the result of the SPL calibration has been corrected to be valid for a load volume of 1333 $mm^3$ . For all other types the result is valid with the actual load volume.

| Transfer Microphone Type | Fulfils standard IEC 61094-1 LS | Fulfils standard IEC 61094-4 WS | Load Volume 1" (1/2" mic including DP-0776) | Load Volume 1/2" |
|---|---|---|---|---|
| 4180 | yes | yes | 1126 $mm^3$ | 43 $mm^3$ |
| 4192 | - | yes | 1273 $mm^3$ | 190 $mm^3$ |
| 9545 | - | - | 1333 $mm^3$ | - |

## Condition "As Received":

Good

## Comments

# Certificate of Calibration

Clean Air Engineering
Performance Group
7936 Conner Rd
Powell, TN 37921

Test Result: **PASS**

Calibration Date: **30 March 2021**

*Due Date: **30 September 2021**

UUT Description: Agilent 34970A
Data Acquisition Switch Unit
Serial Number: US37045684
Asset Number: DAS35

Temperature: 23.0 °C
Humidity: 45 %RH
Data Type: AS-LEFT

Calibrated By: Madeline Loveday

Procedure Used: Agilent 34970A Calibration (1 year)

Notes:

*This instrument was calibrated using laboratory standards that are traceable to the National Institute of Standards and Technology (NIST), nationally recognized standards or natural physical constants, or are derived using self-calibrating ratio techniques. The CleanAir calibration program complies with the requirements of ANSI/NCSL Z540.1-1994.*

*Measurement uncertainties are calculated in accordance with the methods described in NIST TN1297, using a coverage factor k=2, resulting in a measurement confidence level of approximately 95%. The collective uncertainty of the standard utilized in this procedure does not exceed 25% of the unit under test (UUT) accuracy specification (TUR<4:1) unless otherwise specified in the test data or notes.*

**A calibration due date determined by the customer, manufacturers specifications, or instrument history; is provided for reference only and does not imply continued conformance to specification.*



Madeline Loveday
Calibration Performed By

Hayden Ottinger
Calibration Reviewed By

Standards Used

| Asset # | Description | Cal Date | Due Date |
|---|---|---|---|
| 110253 | Fluke 5520A Multifunction Calibrator | 5/18/2020 | 5/18/2021 |

Test Results

| Test Description | System Actual | UUT Value | Tolerance | Deviation | Condition | Exp Uncert | TUR |
|---|---|---|---|---|---|---|---|
| **ENVIRONMENTAL CONDITIONS** | | | | | | | |
| **Temperature: 26.5 C, Humidity: 35.2 %RH** | | | | | | | |
| **CALIBRATION VERIFICATION** | | | | | | | |
| **Self-Test** | | | | | Pass | | |
| **ZERO OFFSET TESTS** | | | | | | | |
| **10 mADC Range** | | | | | | | |
| 0.00000 mA | 0.000000 | -0.00002 | 0.002000 | -0.000017 mA | Pass | | |
| **100 mADC Range** | | | | | | | |
| 0.00000 mA | 0.000000 | 0.00000 | 0.005000 | 0.000000 mA | Pass | | |
| **1 ADC Range** | | | | | | | |
| 0.000000 A | 0.0000000 | -0.000002 | 0.0001000 | -0.0000016 A | Pass | | |
| **100 mVDC Range** | | | | | | | |
| 0.0000 mV | 0.00000 | -0.0004 | 0.00400 | -0.00042 mV | Pass | | |
| **1 VDC Range** | | | | | | | |
| 0.000000 V | 0.0000000 | 0.000000 | 0.0000070 | 0.0000000 V | Pass | | |
| **10 VDC Range** | | | | | | | |
| 0.00000 V | 0.000000 | -0.00000 | 0.000050 | -0.000001 V | Pass | | |
| **100 VDC Range** | | | | | | | |
| 0.0000 V | 0.00000 | 0.0001 | 0.00060 | 0.00008 V | Pass | | |
| **300 VDC Range** | | | | | | | |
| 0.000 V | 0.0000 | 0.000 | 0.0090 | 0.0000 V | Pass | | |
| **100 Ohm, 2-Wire** | | | | | | | |
| 0.0000 Ohm | 0.00000 | -0.0002 | 1.00400 | -0.00016 Ohm | Pass | | |
| **1 kOhm, 2-Wire** | | | | | | | |
| 0.000000 kOhm | 0.0000000 | -0.000144 | 0.0010100 | -0.0001440 kOhm | Pass | | |
| **10 kOhm, 2-Wire** | | | | | | | |
| 0.00000 kOhm | 0.000000 | -0.00014 | 0.001100 | -0.000140 kOhm | Pass | | |
| **100 kOhm, 2-Wire** | | | | | | | |
| 0.0000 kOhm | 0.00000 | -0.0001 | 0.00200 | -0.00010 kOhm | Pass | | |
| **1 MOhm, 2-Wire** | | | | | | | |
| 0.000000 MOhm | 0.0000000 | 0.000000 | 0.0000110 | 0.0000003 MOhm | Pass | | |
| **10 MOhm, 2-Wire** | | | | | | | |
| 0.00000 MOhm | 0.000000 | 0.00000 | 0.000101 | 0.000003 MOhm | Pass | | |

Test Results

| Test Description | System Actual | UUT Value | Tolerance | Deviation | Condition | Exp Uncert | TUR |
|---|---|---|---|---|---|---|---|
| **100 MOhm, 2-Wire** | | | | | | | |
| 0.0000 MOhm | 0.00000 | 0.0000 | 0.010001 | 0.00000 MOhm | Pass | | |
| **100 Ohm, 4-Wire** | | | | | | | |
| 0.0000 Ohm | 0.00000 | 0.0000 | 0.00400 | 0.00003 Ohm | Pass | | |
| **1 kOhm, 4-Wire** | | | | | | | |
| 0.000000 kOhm | 0.0000000 | 0.000000 | 0.0000100 | 0.0000003 kOhm | Pass | | |
| **10 kOhm, 4-Wire** | | | | | | | |
| 0.00000 kOhm | 0.000000 | -0.00001 | 0.000100 | -0.000005 kOhm | Pass | | |
| **100 kOhm, 4-Wire** | | | | | | | |
| 0.0000 kOhm | 0.00000 | 0.0000 | 0.00100 | 0.00000 kOhm | Pass | | |
| **1 MOhm, 4-Wire** | | | | | | | |
| 0.000000 MOhm | 0.0000000 | 0.000001 | 0.0000100 | 0.0000008 MOhm | Pass | | |
| **10 MOhm, 4-Wire** | | | | | | | |
| 0.00000 MOhm | 0.000000 | 0.00000 | 0.000100 | 0.000000 MOhm | Pass | | |
| **100 MOhm, 4-Wire** | | | | | | | |
| 0.0000 MOhm | 0.00000 | 0.0000 | 0.01000 | 0.00000 MOhm | Pass | | |
| **DC VOLTAGE : Gain Verification** | | | | | | | |
| **100mV Range** | | | | | | | |
| 100.0000 mV | 100.00000 | 99.9999 | 0.00900 | -0.00010 mV | Pass | 2.326e-006 V | 3.00 |
| **1V Range** | | | | | | | |
| 1.000000 V | 1.0000000 | 1.000005 | 0.0000470 | 0.0000048 V | Pass | 1.009e-005 V | 3.62 |
| **10V Range** | | | | | | | |
| 10.00000 V | 10.000000 | 10.00005 | 0.000400 | 0.000053 V | Pass | 1.087e-004 V | 2.86 |
| -10.00000 V | -10.000000 | -10.00008 | 0.000400 | -0.000075 V | Pass | 1.087e-004 V | 2.86 |
| **100V Range** | | | | | | | |
| 100.0000 V | 100.00000 | 100.0007 | 0.00510 | 0.00070 V | Pass | 1.513e-003 V | 2.62 |
| **300V Range** | | | | | | | |
| 300.0000 V | 300.00000 | 299.9973 | 0.02250 | -0.00272 V | Pass | 4.303e-003 V | |
| **FREQUENCY RESPONSE** | | | | | | | |
| **100mV Range** | | | | | | | |
| 100.0000 Hz @ 10 mV | 100.00000 | 99.9787 | 0.10000 | -0.02130 Hz | Pass | 2.059e-004 Hz | |
| **1V Range** | | | | | | | |
| 100.0000 kHz @ 1 V | 100.00000 | 100.0003 | 0.01000 | 0.00029 kHz | Pass | 2.022e-001 Hz | |

Test Results

| Test Description | System Actual | UUT Value | Tolerance | Deviation | Condition | Exp Uncert | TUR |
|---|---|---|---|---|---|---|---|
| **4-WIRE OHMS : Gain Verification** | | | | | | | |
| **100 Ohm Range** | | | | | | | |
| 100.0000 Ohm | 100.00000 | 100.0013 | 0.01400 | 0.00131 Ohm | Pass | 3.256e-003 Ohm | 3.33 |
| **1 kOhm Range** | | | | | | | |
| 1.000000 kOhm | 1.0000 | 1.000 | 0.0101 | 0.0000 Ohm | Pass | 2.326e-002 Ohm | |
| 100.000 Ohm | 100.0000 | 100.004 | 0.0200 | 0.0037 Ohm | Pass | 3.307e-003 Ohm | |
| 120.000 Ohm | 120.0000 | 120.001 | 0.0220 | 0.0009 Ohm | Pass | 4.195e-003 Ohm | |
| 140.000 Ohm | 140.0000 | 140.003 | 0.0240 | 0.0029 Ohm | Pass | 4.625e-003 Ohm | |
| 200.000 Ohm | 200.0000 | 200.004 | 0.0300 | 0.0036 Ohm | Pass | 5.920e-003 Ohm | 3.95 |
| 250.000 Ohm | 250.0000 | 250.004 | 0.0350 | 0.0036 Ohm | Pass | 7.001e-003 Ohm | 3.89 |
| 300.000 Ohm | 300.0000 | 300.007 | 0.0400 | 0.0068 Ohm | Pass | 8.083e-003 Ohm | 3.85 |
| **10 kOhm Range** | | | | | | | |
| 10.00000 kOhm | 10.000000 | 10.00005 | 0.001100 | 0.000052 kOhm | Pass | 2.326e-001 Ohm | 3.67 |
| **100 kOhm Range** | | | | | | | |
| 100.0000 kOhm | 100.00000 | 100.0016 | 0.01100 | 0.00163 kOhm | Pass | 2.326e+000 Ohm | 3.67 |
| **2-WIRE OHMS : Gain Verification** | | | | | | | |
| **100 Ohm Range** | | | | | | | |
| 100.0000 Ohm | 100.00000 | 100.6281 | 1.01400 | 0.62805 Ohm | Pass | 3.256e-003 Ohm | |
| **1 kOhm Range** | | | | | | | |
| 1.000000 kOhm | 1.0000000 | 1.000639 | 0.0011100 | 0.0006390 kOhm | Pass | 2.326e-002 Ohm | |
| **10 kOhm Range** | | | | | | | |
| 10.00000 kOhm | 10.000000 | 10.00069 | 0.002100 | 0.000688 kOhm | Pass | 2.326e-001 Ohm | |
| **100 kOhm Range** | | | | | | | |
| 100.0000 kOhm | 100.00000 | 100.0022 | 0.01200 | 0.00216 kOhm | Pass | 2.326e+000 Ohm | 4.00 |
| **1 MOhm Range** | | | | | | | |
| 1.000000 MOhm | 1.0000000 | 1.000005 | 0.0001110 | 0.0000049 MOhm | Pass | 2.636e+001 Ohm | 3.26 |
| **10 MOhm Range** | | | | | | | |
| 10.00000 MOhm | 10.000000 | 9.99899 | 0.004100 | -0.001005 MOhm | Pass | 1.047e+003 Ohm | 3.04 |

**Reference Junction Temperature**

**28.98047 Deg C**

***** End of Certificate *****

# Certificate of Calibration

| | | | |
|---|---|---|---|
| Calibrated For: | CleanAir Engineering<br>Performance Division<br>7936 Conner Road<br>Powell, TN 37849 | Test Result: | **PASS** |
| | | Calibration Date: | **22 September 2020** |
| | | *Due Date: | **22 September 2021** |

| | | | |
|---|---|---|---|
| UUT Description: | Testo 511<br>Hand Held Barometer | Temperature: | 23.0 °C |
| | | Humidity: | 45 %RH |
| Serial Number: | 39113980/702 | Data Type: | AS-LEFT |
| Asset Number: | 10615106 | | |

Calibrated By: Skyler Turner

Procedure Used: Field Deployable Barometer: Cal Ver

Notes:

*This instrument was calibrated using laboratory standards that are traceable to the National Institute of Standards and Technology (NIST), nationally recognized standards or natural physical constants, or are derived using self-calibrating ratio techniques. The CleanAir calibration program complies with the requirements of ANSI/NCSL Z540.1-1994.*

*Measurement uncertainties are calculated in accordance with the methods described in NIST TN1297, using a coverage factor k=2, resulting in a measurement confidence level of approximately 95%. The collective uncertainty of the standard utilized in this procedure does not exceed 25% of the unit under test (UUT) accuracy specification (TUR<4:1) unless otherwise specified in the test data or notes.*

**A calibration due date determined by the customer, manufacturers specifications, or instrument history; is provided for reference only and does not imply continued conformance to specification.*



Calibration Performed By

Calibration Reviewed By

Standards Used

| Asset # | Description | Cal Date | Due Date |
|---|---|---|---|
| 110259 | Druck DPI-150 Pressure Indicator | 5/14/2020 | 5/14/2021 |

Test Results

| Test Description | System Actual | UUT Value | Tolerance | Deviation | Condition | Exp Uncert | TUR |
|---|---|---|---|---|---|---|---|
| **PRESSURE VERIFICATION** | | | | | | | |
| 12.000 psi | 12.000 | 11.98 | 0.050 | -0.016 psi | Pass | 5.965e-003 psi | |
| 13.000 psi | 13.000 | 13.00 | 0.050 | -0.003 psi | Pass | 5.965e-003 psi | |
| 14.000 psi | 14.000 | 14.00 | 0.050 | -0.002 psi | Pass | 5.965e-003 psi | |
| 15.000 psi | 15.000 | 15.01 | 0.050 | 0.013 psi | Pass | 5.965e-003 psi | |
| 16.000 psi | 16.000 | 16.01 | 0.050 | 0.007 psi | Pass | 5.965e-003 psi | |

***** End of Certificate *****

**Certificate #: LT0283-033021AL**

# Certificate of Calibration

| | | | |
|---|---|---|---|
| Calibrated For: | CleanAir Engineering<br>Performance Group<br>7936 Conner Road<br>Powell, TN 37849 | Test Result: | PASS |
| | | Calibration Date: | **30 March 2021** |
| | | *Due Date: | **30 March 2022** |

| | | | |
|---|---|---|---|
| UUT Description: | Pyromation 4-wire Precision RTD<br>1/4 in. x 16 in. Low Temperature | Temperature: | 23.3°C |
| | | Humidity: | 31% RH |
| Serial Number: | N/A | Cal Location: | In-House |
| Asset Number: | LT0283 | Seals Intact: | N/A |
| Customer ID#: | N/A | Data Type: | As Left |
| Calibrated By: | Colt Drennon | | |
| Procedure Used: | Low Temp RTD CofC | Revision: | 0 |
| Notes: | Unit in tolerance utilizing supplied coefficients. | | |

*This instrument was calibrated using laboratory standards that are traceable to the National Institute of Standards and Technology (NIST), nationally recognized standards or natural physical constants, or are derived using self-calibrating ratio techniques. The CleanAir calibration program complies with the requirements of ANSI/NCSL Z540.1-1994.*

**A calibration due date determined by the customer, manufacturers specifications, or instrument history; is provided for reference only and does not imply continued conformance to specification.*



Colt Drennon
Calibration Performed By

Hayden Ottinger
Calibration Reviewed By

Standards Used

| Asset # | Description | Cal Date | Due Date |
|---|---|---|---|
| 210811100 | Hewlett Packard 3458A Multimeter | 6/9/2020 | 6/9/2021 |
| 210117101 | Hart Scientific 5628 Platinum Resistance Thermometer | 3/23/2021 | 3/23/2022 |
| 210010117 | Data Acquisition Switch Unit | 2/1/2021 | 5/2/2021 |

Certificate #: LT0283-033021AL

# Certificate of Calibration

**Probe ID#:** LT0283
**DAS Ch. #:** 203
**Tolerance:** 0.1°F
**Range:** 40 to 180°F

**Calibrated For:** CleanAir Engineering
Performance Group
7936 Conner Road
Powell, TN 37849

**Phone:** 865-938-7555
**Contact Name:** Corey Mullen
**Data Type:** As Left

Callendar-Van Dusen Equation
$R(T)=R(0)+R(0)*\alpha*[T-\delta*(\{T/100\}-1)*\{T/100\}]$
where:

**As Left Coefficients**

**R(0)=** 9.998109E+01
**α=** 3.854888E-03
**δ=** 1.530791E+00

## As Left Results

| Calibration Point | Reference Temperature (°F) | UUT Resistance (Ohms) | Calculated UUT Temperature (°F) | Calculated Temperature (°C) | UUT Deviation from Reference (°F) | Calibration Result |
|---|---|---|---|---|---|---|
| 1 | 39.708 | 101.6561 | 39.710 | 4.283 | 0.001 | PASS |
| 2 | 62.660 | 106.6288 | 62.657 | 17.032 | -0.003 | PASS |
| 3 | 86.627 | 111.8028 | 86.628 | 30.349 | 0.001 | PASS |
| 4 | 109.621 | 116.7460 | 109.621 | 43.123 | 0.000 | PASS |
| 5 | 132.619 | 121.6713 | 132.620 | 55.900 | 0.001 | PASS |
| 6 | 156.591 | 126.7844 | 156.592 | 69.218 | 0.001 | PASS |
| 7 | 179.594 | 131.6708 | 179.593 | 81.996 | -0.001 | PASS |

**Certificate #: LT0343-033021AL**

# Certificate of Calibration

| | | | |
|---|---|---|---|
| Calibrated For: | CleanAir Engineering<br>Performance Group<br>7936 Conner Road<br>Powell, TN 37849 | Test Result: | PASS |
| | | Calibration Date: | **30 March 2021** |
| | | *Due Date: | **30 March 2022** |

| | | | |
|---|---|---|---|
| UUT Description: | Pyromation 4-wire Precision RTD<br>1/4 in. x 16 in. Low Temperature | Temperature: | 23.3°C |
| | | Humidity: | 31% RH |
| Serial Number: | N/A | Cal Location: | In-House |
| Asset Number: | LT0343 | Seals Intact: | N/A |
| Customer ID#: | N/A | Data Type: | As Left |
| Calibrated By: | Colt Drennon | | |
| Procedure Used: | Low Temp RTD CofC | Revision: | 0 |
| Notes: | Unit in tolerance utilizing supplied coefficients. | | |

*This instrument was calibrated using laboratory standards that are traceable to the National Institute of Standards and Technology (NIST), nationally recognized standards or natural physical constants, or are derived using self-calibrating ratio techniques. The CleanAir calibration program complies with the requirements of ANSI/NCSL Z540.1-1994.*

**A calibration due date determined by the customer, manufacturers specifications, or instrument history; is provided for reference only and does not imply continued conformance to specification.*



Colt Drennon
Calibration Performed By

Hayden Ottinger
Calibration Reviewed By

Standards Used

| Asset # | Description | Cal Date | Due Date |
|---|---|---|---|
| 210811100 | Hewlett Packard 3458A Multimeter | 6/9/2020 | 6/9/2021 |
| 210117101 | Hart Scientific 5628 Platinum Resistance Thermometer | 3/23/2021 | 3/23/2022 |
| 210010117 | Data Acquisition Switch Unit | 2/1/2021 | 5/2/2021 |

Certificate #: LT0343-033021AL

# Certificate of Calibration

**Probe ID#:** LT0343
**DAS Ch. #:** 204
**Tolerance:** 0.1°F
**Range:** 40 to 180°F

**Calibrated For:** CleanAir Engineering
Performance Group
7936 Conner Road
Powell, TN 37849

**Phone:** 865-938-7555
**Contact Name:** Corey Mullen
**Data Type:** As Left

Callendar-Van Dusen Equation
$R(T)=R(0)+R(0)*\alpha*[T-\delta*(\{T/100\}-1)*\{T/100\}]$
where:

**As Left Coefficients**

**R(0)=** 1.002659E+02
**α=** 3.852923E-03
**δ=** 1.728104E+00

## As Left Results

| Calibration Point | Reference Temperature (°F) | UUT Resistance (Ohms) | Calculated UUT Temperature (°F) | Calculated Temperature (°C) | UUT Deviation from Reference (°F) | Calibration Result |
|---|---|---|---|---|---|---|
| 1 | 39.708 | 101.9464 | 39.703 | 4.279 | -0.005 | PASS |
| 2 | 62.660 | 106.9418 | 62.666 | 17.037 | 0.007 | PASS |
| 3 | 86.627 | 112.1321 | 86.632 | 30.351 | 0.005 | PASS |
| 4 | 109.621 | 117.0884 | 109.620 | 43.122 | -0.001 | PASS |
| 5 | 132.619 | 122.0237 | 132.611 | 55.895 | -0.008 | PASS |
| 6 | 156.591 | 127.1481 | 156.592 | 69.218 | 0.001 | PASS |
| 7 | 179.594 | 132.0415 | 179.596 | 81.998 | 0.002 | PASS |

**Certificate #: LT0833-033021AL**

# Certificate of Calibration

| | | | |
|---|---|---|---|
| Calibrated For: | CleanAir Engineering<br>Performance Group<br>7936 Conner Road<br>Powell, TN 37849 | Test Result: | PASS |
| | | Calibration Date: | **30 March 2021** |
| | | *Due Date: | **30 March 2022** |

| | | | |
|---|---|---|---|
| UUT Description: | Pyromation 4-wire Precision RTD<br>1/4 in. x 16 in. Low Temperature | Temperature: | 23.3°C |
| | | Humidity: | 31% RH |
| Serial Number: | N/A | Cal Location: | In-House |
| Asset Number: | LT0833 | Seals Intact: | N/A |
| Customer ID#: | N/A | Data Type: | As Left |
| Calibrated By: | Colt Drennon | | |
| Procedure Used: | Low Temp RTD CofC | Revision: | 0 |
| Notes: | Unit in tolerance utilizing supplied coefficients. | | |

*This instrument was calibrated using laboratory standards that are traceable to the National Institute of Standards and Technology (NIST), nationally recognized standards or natural physical constants, or are derived using self-calibrating ratio techniques. The CleanAir calibration program complies with the requirements of ANSI/NCSL Z540.1-1994.*

**A calibration due date determined by the customer, manufacturers specifications, or instrument history; is provided for reference only and does not imply continued conformance to specification.*



Colt Drennon
Calibration Performed By

Hayden Ottinger
Calibration Reviewed By

Standards Used

| Asset # | Description | Cal Date | Due Date |
|---|---|---|---|
| 210811100 | Hewlett Packard 3458A Multimeter | 6/9/2020 | 6/9/2021 |
| 210117101 | Hart Scientific 5628 Platinum Resistance Thermometer | 3/23/2021 | 3/23/2022 |
| 210010117 | Data Acquisition Switch Unit | 2/1/2021 | 5/2/2021 |

Certificate #: LT0833-033021AL

# Certificate of Calibration

**Probe ID#:** LT0833
**DAS Ch. #:** 205
**Tolerance:** 0.1°F
**Range:** 40 to 180°F

**Calibrated For:** CleanAir Engineering
Performance Group
7936 Conner Road
Powell, TN 37849

**Phone:** 865-938-7555
**Contact Name:** Corey Mullen
**Data Type:** As Left

Callendar-Van Dusen Equation
$R(T)=R(0)+R(0)*\alpha*[T-\delta*(\{T/100\}-1)*\{T/100\}]$
where:

**As Left Coefficients**

**R(0)=** 9.998999E+01
**α=** 3.856387E-03
**δ=** 1.520884E+00

## As Left Results

| Calibration Point | Reference Temperature (°F) | UUT Resistance (Ohms) | Calculated UUT Temperature (°F) | Calculated Temperature (°C) | UUT Deviation from Reference (°F) | Calibration Result |
|---|---|---|---|---|---|---|
| 1 | 39.708 | 101.6650 | 39.707 | 4.282 | -0.001 | PASS |
| 2 | 62.660 | 106.6413 | 62.662 | 17.034 | 0.002 | PASS |
| 3 | 86.627 | 111.8152 | 86.622 | 30.346 | -0.005 | PASS |
| 4 | 109.621 | 116.7644 | 109.632 | 43.129 | 0.011 | PASS |
| 5 | 132.619 | 121.6902 | 132.623 | 55.902 | 0.003 | PASS |
| 6 | 156.591 | 126.8012 | 156.573 | 69.207 | -0.019 | PASS |
| 7 | 179.594 | 131.6964 | 179.603 | 82.002 | 0.009 | PASS |