Appendix 24: 2022 Noise Monitoring Report

AGNICO EAGLE

MELIADINE GOLD MINE

2022 Noise Monitoring Report

In Accordance with NIRB Project Certificate No. 006

Prepared by:
Agnico Eagle Mines Limited – Meliadine Division

MARCH 2023

EXECUTIVE SUMMARY

In accordance with the Nunavut Impact Review Board (NIRB) Project Certificate No. 006 (NIRB, 2022), and as described in the Noise Abatement and Monitoring Plan (the Plan), Agnico Eagle Mines Ltd. (Agnico Eagle) monitors outdoor ambient noise levels at the Meliadine site. The objective of the noise monitoring program is to measure noise levels at three or four previously determined monitoring locations over at least two 24 h periods. Results are compared to the Final Environmental Impact Statement (FEIS, Golder 2014) predictions for the 24-h L_{eq}, the $L_{eq\text{-}nighttime}$ design target, and the site's noise monitoring criteria (24-h L_{eq}).

Since high winds in the area tend to significantly reduce the amount of available data, technicians aim to conduct two or more monitoring events for each station, lasting two to four days each. In 2022, two or three monitoring events were successfully conducted for all required stations (NPOR006a, NPOR008, NPOR017a, and NPOR014a).

Following data processing in accordance with standard methods (Alberta Energy Resource Conservation Board Directive 038), sufficient valid data was available for the calculation of at least two 24-h L_{eq} values for each monitoring station in 2022. Final values are shown in Table 1.

For all stations, no mine-related exceedances of FEIS predictions, noise monitoring criteria, or design targets occurred. The night-time design target of 40 dBA was marginally exceeded (40.1 dBA) during one survey at station NPOR008, but review of the data determined this was due to localized elevated wind gusts and no mine-related sounds were audible.

To date, no noise-related complaints have been received for the Meliadine site. Based on these findings, no changes to existing noise monitoring plans and mitigation measures are proposed at this time.

Table 1. Summary of noise monitoring results in 2022. Values exceeding FEIS predictions, criteria and/or design targets are in bold. "-" indicates not applicable. *An additional survey was conducted at NPOR008 from July 9 – August 1 but all data was filtered out due to high winds. ^Marginal exceedance of design target due to local wind gusts with no audible mine-related noise.

Location	**Monitoring Start**	**Monitoring End**	*Noise Monitoring Criterion* $L_{eq(24\ h)}$ *(dBA)*	*FEIS Prediction* $L_{eq(24\ h)}$ *(dBA)*	**Measured $L_{eq(24\ h)}$ (dBA)**	*Design Target* $L_{eq\ (nighttime)}$ *(dBA)*	**Measured $L_{eq\ (nighttime)}$ (dBA)**
NPOR006a	7/17/22 16:18	7/20/22 8:35	*45*	*39.8*	38.9	-	-
	7/25/22 9:49	7/28/22 11:27			37.1		-
NPOR008*	7/21/22 9:01	7/24/22 9:01	*45*	*41.7*	31.5	*40*	28.6
	8/26/22 16:22	8/29/22 23:59			40.0		**(40.1)^**
NPOR014a	7/30/22 11:39	8/03/22 9:08	*45*	*44.7*	39.2	-	-
	8/13/22 10:45	8/18/22 5:40			36.7		-
NPOR017a	7/21/22 9:37	7/24/22 13:36	*45*	*43.4*	33.4	-	-
	8/02/22 14:18	8/05/22 14:37			36.3		-
	9/13/22 16:26	9/16/22 11:56			41.9		-

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1 INTRODUCTION

The Meliadine Gold Mine (the Mine) near Rankin Inlet, Nunavut is subject to the terms and conditions of the amended Project Certificate 006 issued by the Nunavut Impact Review Board (NIRB) in accordance with the Nunavut Land Claims Agreement Article 12.5.12 on March 2nd, 2022 (NIRB, 2022).

In accordance with this Project Certificate, and as described in the Noise Abatement and Monitoring Plan (the Plan), Agnico Eagle began conducting outdoor noise monitoring at the Meliadine site in 2016. The objective of the Plan is to validate predictions of noise levels made in the FEIS, confirm the findings of the noise impact assessment (Vol. 5 – Atmospheric Environment and Impact Assessment, Golder 2014), and inform the implementation of noise mitigation measures. If noise monitoring confirms excessive Mine-associated noise levels exist, the monitoring data will be used to determine where noise abatement requires improvement.

A summary of the noise monitoring program is shown in Table 2, according to the Noise Abatement and Monitoring Plan. Locations NPOR006 and NPOR017 were adjusted beginning in 2020 to accommodate COVID-related restrictions (NPOR006a and NPOR017a; discussed in Section 2.1).

Table 2. Noise monitoring objectives, frequency, duration, and locations.

Project Phase	Project Objectives	Frequency and Duration of Monitoring	Monitoring Locations
Construction and Operations	To verify that the noise emissions used in the FEIS noise assessment were reasonable, yet conservative. To verify that the mitigation measures considered integral to the Project are incorporated as planned, and are effective.	Two noise surveys per year per station, for a minimum period of 24 h per survey.	FEIS receptor locations: NPOR005 and/or NPOR006 (pre-2020) or NPOR006a (2020+) NPOR008 NPOR014 (pre-2020) or NPOR014a (2020+) – *when activities associated with the Discovery Pit are occurring.* NPOR017 (pre-2020) or NPOR017a (2020+)

2 METHODS

2.1 MONITORING LOCATIONS

In 2022, noise monitoring was conducted at four locations, as required by the Noise Abatement and Monitoring Plan (March, 2020). Very limited activities were ongoing at the Discovery Pit location, but NPOR014a was opportunistically monitored.

The monitoring locations in 2022 are identified in Figure 1, and summarized in Table 3. Photos of the noise monitoring locations are provided in Section 3. These monitoring locations will be reviewed and may be adapted throughout the construction and/or operations phases of the Project, as necessary. Changes will be detailed in subsequent updates to the Noise Abatement and Monitoring Plan.

Table 3. Noise monitoring locations and conditions for monitoring.

Location ID	UTM (Zone 15V)	Project Area	Monitoring Conditions	Monitored in 2022?
NPOR006	538286E 6991299N	Mine	Monitor during the entire Construction and Operations Phases, and initial stages of Closure when extensive activities are occurring.	No
NPOR006a	537550E 6991300N	Mine	Adjusted NPOR006 location beginning in 2020 to reduce potential for community interaction due to COVID-19 restrictions.	Yes
NPOR008	543707E 6987276N	Mine	Monitor during the entire Construction and Operations Phases, and initial stages of Closure when extensive activities are occurring.	Yes
NPOR014	549401E 6982060N	Mine	Pre-2020 monitoring location. Monitor only if activities associated with the Discovery Pit are occurring.	No
NPOR014a	548829 E 6982610 N	Mine	Adjusted NPOR014 location for 2020 +. This station has been moved based on community concerns around monitoring near cabin. Monitor only if activities associated with the Discovery Pit are occurring.	Yes
NPOR017	544203E 6970537N	AWAR[1]	Monitor during the entire Construction and Operations Phases, and initial stages of Closure when extensive activities are occurring.	No
NPOR017a	546152E 6971995N	AWAR	Adjusted NPOR017 location beginning in 2020 to reduce potential for community interaction due to COVID-19 restrictions.	Yes
(NPOR005)	*537978E 6991742N*	*Mine*	*Former alternate to NPOR006 if monitoring at that location was not feasible due to high occupancy rates of the adjacent cabin. No*	No

[1] All Weather Access Road

Location ID	UTM (Zone 15V)	Project Area	Monitoring Conditions	Monitored in 2022?
			longer required since monitoring began at NPOR006a in 2020.	

NPOR006 is located approximately 1 km north of the mine site disturbance area, and approximately 200 m outside the FEIS site study area (SSA). The surrounding terrain is a mix of small rock and lichen. The slope is very minimal towards the SW. Meliadine Lake is ~150 m NE and an unnamed small lake is ~120 m SSW. The adjacent cabin was in use at the time of the 2017 and 2018 noise surveys, but did not appear to be in use in 2019. In 2020, this monitoring station was moved approximately 700 m to the west to reduce potential for interaction with community members during the COVID-19 pandemic. The new station, NPOR006a, is approximately the same distance from the FEIS SSA boundary as NPOR006 (~200 m north), and is within the same noise isopleth (band of predicted sound levels) in the FEIS noise assessment. Results at this station are therefore compared to the same criteria as applied previously for NPOR006. In 2019, station NPOR005 had been identified as an alternate location to NPOR006 in the event of ongoing cabin-related noise, but its use has not been necessary since monitoring began at NPOR006a.

Station NPOR008 is located approximately 1.25 km from the SSA, on the east side of the Mine. The surrounding terrain is on the summit of a small vegetated hill with very little apparent rock. Meliadine Lake is ~ 51 m to the NNE. The mine camp is approximately 2 km to the northwest, and the AWAR is approximately 2.5 km to the southwest. No changes have been made to the location of this station since monitoring began in 2016.

Station NPOR014 is located approximately 130 m from a traditionally used ATV trail. This station is at the southern end of Meliadine Lake and is approximately 10 km away from the Meliadine exploration camp and 5 km from the Discovery area. It is located within the SSA. Currently there are limited activities in this area, so monitoring has only been conducted opportunistically, and any measurements at NPOR014 are expected to be indicative of background values. Due to community concerns with the presence of noise monitors at this station that were brought to Agnico Eagle's attention in early 2020, the monitoring location was adjusted beginning in 2021. The new station (NPOR014a) is similarly sited with respect to expected noise emissions from future local activities (e.g. similar distance from the proposed roadway, similar distance from the proposed Discovery Pit).

NPOR017 is located at the southern end of the AWAR. It is approximately 150 m SE of the road. No SSA was assessed for the AWAR. Since this station is located outside (south) of the AWAR gatehouse and could not be accessed in 2020 due to COVID-19 restrictions, monitoring was conducted at new station NPOR017a which is approximately 2 km further north along the AWAR. This site was again assessed in 2021 and 2022. Station NPOR017a is sited at the same distance from the AWAR (150 m SE), which is the dominant noise source of interest for this station. Topography in both locations is similarly flat, and results for station NPOR017a are suitable for comparison to criteria and FEIS predictions previously applied to NPOR017.

Haul and Service Road

Rankin Inlet Bypass Road

All-Weather Access Road

Production Lease Outline

Noise Monitoring Location

Noise Abatement and Monitoring Plan

Figure 1

Meliadine Noise Monitoring Locations

0 1 2 3 4 km

Date: 2022-01-15

Created By: BH/ALP

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2.2 Monitoring Dates

In accordance with the Noise Abatement and Monitoring Plan, two or more 24-h+ noise surveys were conducted for each location. Surveys were planned to last a minimum of 48 h, since a significant portion of data has historically been filtered out due to sub-optimal weather conditions (see Section 2.4). Monitoring dates and times for each survey are provided in Table 4.

Table 4. Noise monitoring dates in 2022, and total duration of the survey based on recorded data.

Location	Monitoring Start	Monitoring End	Duration (h)
NPOR006a	7/17/22 16:18	7/20/22 8:35	65
	7/25/22 9:49	7/28/22 11:27	75
NPOR008	7/21/22 9:01	7/24/22 9:01	73
	8/26/22 16:22	8/29/22 23:59	80
NPOR014a	7/30/22 11:39	8/03/22 9:08	95
	8/13/22 10:45	8/18/22 5:40	116
NPOR017a	7/21/22 9:37	7/24/22 13:36	77
	8/02/22 14:18	8/05/22 14:37	73
	9/13/22 16:26	9/16/22 11:56	68

2.3 Sound Level Meter

For all stations a Bruel and Kjaer Model 2250 integrating sound level meter with outdoor microphone type 4952 was used to conduct the noise survey. In 2019, a second sound level meter was purchased to facilitate the noise monitoring program. Historically, a secondary windscreen was used for all measurements. This equipment was not available for purchase with the second sound level meter, therefore beginning in 2020, the secondary wind screen was only used for some monitoring events. Wind screens do not alter final noise measurements, but rather reduce the quantity of data that is ultimately filtered out due to wind-induced interference, thus data collected with and without the screen is considered comparable.

The noise logging rate was set at one-minute intervals, and according to the Noise Abatement and Monitoring Plan, logged parameters included:

- Integrated equivalent A-weighted sound level (L_{Aeq});
- 1/3 octave band sound levels in decibels (dB);
- Statistical data (L_{10}, L_{90});

- Maximum sound level (L_{max}) in dBA; and
- Minimum sound level (L_{min}) in dBA.

Calibration of the instrument was performed before and after each monitoring event using a Bruel and Kjaer Type 4231 Calibrator, to ensure variance was within 0.5 dB (see field notes, Appendix A). Estimated uncertainty, over a yearly time period for the calibrator is +/- 0.12 dB at a 99% confidence level.

According to the Plan, professional calibration of the instruments is performed every year (calibrator and microphone) or every two years (sound level meter). A record of professional calibration is provided in Table 5.

Table 5. Professional calibration record for noise monitoring instruments (calibration for each microphone includes the field calibrator). P = purchase date. ✓ = professional calibration. Meter 1 was purchased in 2016, and Meter 2 was purchased in 2019.

Year	B&K Sound Level Meter 1	B&K Microphone 1	B&K Sound Level Meter 2	B&K Microphone 2
2019	02-25-19	02-25-19	Purchased 08-19-19	Purchased 08-19-19
2020	03-19-20	03-19-20	03-19-20	03-19-20
2021	03-19-21	03-19-21	03-19-21	03-19-21
2022	12-10-21	12-10-21	12-10-21	12-10-21

2.4 WEATHER DATA

Weather data for the noise monitoring periods was collected using the mine site's permanent weather station. Hourly data for wind, temperature, and precipitation were available from this station.

In the case of noise monitoring for complaint situations, the Alberta Energy Resource Conservation Board Directive 038 (Directive 038) requires noise data to be collected under appropriate weather conditions, which are represented by an absence of steady precipitation, snow, water, or ice ground cover, as well as restrictions on wind speed. To adhere as much as possible to these conditions, noise data was initially filtered out from analyses when wind speed exceeded 15 km/h. Average wind speed values were used, since filtering based on maximum values has historically resulted in exclusion of nearly the entire noise dataset. This approach is considered conservative, since higher winds are likely to result in increased noise levels due to wind effects. Data was further filtered on the basis of recorded and audible precipitation as necessary during the secondary filtering stage (see Section 2.6.1), to preserve available data as much as possible. This approach was considered acceptable since no noise-related complaints were under

investigation (none have been received to date). Weather data for the monitoring periods (wind speed, wind direction, temperature, relative humidity) are provided in Appendix B.

2.5 Field Notes

A pocket weather meter (WeatherHawk® WindMate™, WM-300) was used by field staff to record wind speed, direction, and temperature at the beginning and end of each monitoring period. Other observations included precipitation, cloud cover, and observed noises during instrument set-up and takedown. All field notes are provided in Appendix A.

2.6 Data Analysis

Recorded sound levels were downloaded for assessment using the Bruel and Kjaer 5503 Measurement Suite software, with some calculations performed using Microsoft Excel. Recorded one-minute L_{Aeq} values were used to calculate hourly equivalent energy noise levels ($L_{eq, 1h}$) for further processing.

2.6.1 Data Filtering

2.6.1.1 Initial Filtering

All datapoints associated with the first and last hour of measurement were filtered out to remove noise from technician activity, and to ensure more than 30 min of data contributed to hourly averages. Data was also filtered on the basis of hourly recorded wind conditions to comply with Directive 038 (see Section 2.4). After this initial data filtering, valid hourly L_{eq} values for each monitoring period were used to calculate average 24-h equivalent energy noise levels ($L_{eq, 24\,h}$). When a data point ($L_{eq, 1\,h}$) was available from more than one day within a monitoring period, values were energy-averaged across calendar days to ensure time points contributed equally to 24-h L_{eq} values. All calculated hourly L_{eq} values are provided in Appendix B.

2.6.1.2 Secondary Filtering

When calculated 24-h L_{eq} values exceeded FEIS predictions or noise criteria (see Section 3.6.2, below), data and sound recordings were further reviewed to identify and if appropriate, remove noise data dominated by background noise sources unrelated to mine activity, and causing recorded L_{eq} values in excess of FEIS predictions or noise criteria (e.g. wind, rain, ongoing animal disturbance in close proximity to the microphone, direct human interference). These noise sources were assumed to be minimal in the FEIS process, since a background sound level of 35 dBA was used. Episodes of human and/or animal interference were identified through review of sound recordings. When interference was minimal (<30 min in an hour), 1-min L_{eq} values were filtered out and hourly L_{eq} values re-calculated. When period of extended animal interference occurred (>30 min in an hour), the 1-h L_{eq} was filtered out. Periods of rain were identified through review of recorded weather data and sound recordings, and hourly L_{eq} values were filtered out when audible and/or recorded precipitation occurred. Extended periods of local elevated wind gusts were identified through review of sound recordings and calculated L90 values, which are typically assumed representative of background sound levels. When hourly L90 values exceeded 35 dBA, and review of sound recordings did not identify audible mine-related noise, this data was filtered out. The 1-h L_{eq} values excluded on the basis of this secondary filtering step are indicated in Appendix B.

After this second data filtering (as needed), night-time and 24-h L_{eq} values were re-calculated. Final L_{eq} values are reported for monitoring events with more than 180 valid minutes available from each of the daytime and nighttime periods. In 2022, sufficient valid data was available for all monitoring periods after filtering.

2.6.2 Noise Monitoring Criteria

Final L_{eq} values were compared to FEIS predictions and the site's noise monitoring criteria (see Table 6).

As indicated in the Noise Abatement and Monitoring Plan, night-time (11 pm – 7 am) L_{eq} values were also calculated, and are compared with the design target of 40 dBA for sites NPOR005 (when monitoring has occurred at this station) and NPOR008, for reference only. It should be noted that this target was designed to apply at a distance of 1.5 km from the site study area (SSA) in remote areas. NPOR005 and NPOR008 are located approximately 1.2 km from the SSA, so exceedances of this target value may occur at the monitoring stations without exceeding the design target at the 1.5 km distance. If concerns arise regarding nighttime sound levels around the Mine, one or more stations may be added or moved in future monitoring events to coincide with this design target location to more precisely assess FEIS predictions. The other Mine monitoring stations (NPOR006a, NPOR014a) are located significantly closer to or within the SSA, thus comparison to the nighttime design target is not considered appropriate. Similarly, no SSA was assessed for AWAR locations in the FEIS, therefore results at NPOR017a are not compared to the nighttime design target.

Table 6. FEIS predictions for 24-h equivalent sound levels, FEIS design targets for 1.5 km from the site study area perimeter, and noise monitoring criteria from the Noise Abatement and Monitoring Plan.

Location	FEIS Prediction L_{eq-24h} (dBA)	FEIS Design Target (1.5 km from SSA) $L_{eq-nighttime}$ (dBA)	Noise Monitoring Criteria L_{eq-24h} (dBA)
(NPOR005)*	36.3	40	45
NPOR006/6a	39.8	-	45
NPOR008	41.7	40	45
NPOR014/14a	44.7	-	45
NPOR017/17a	43.4	-	45

*Station NPOR005 is an alternate to NPOR006, and was not required to be monitored in 2022.

3 Results

24-h and night-time L_{eq} values are presented and reviewed below, for comparison to criteria in Section 2.6.2. All 1-h L_{eq} values are provided in Appendix B.

3.1 NPOR006a

Recorded 1-min L_{eq} values for monitoring events 1 and 2 at NPOR006a are shown in Figures 3 and 4. For event 1 at station NPOR006a (July 17 - 20), 65 h of monitoring were conducted, and 43 h of valid data were available after filtering. For event 2 at NPOR006a (July 25 – 28), 75 h of monitoring were conducted, and 59 h of valid data were available after filtering.

Noise sources noted in the field log for this location in 2022 include possibility for human activities from the nearby cabin (~600 m), vehicles travelling on the mine road (500 m), boats on Meliadine Lake, and animal sounds (birds).

For both monitoring events, the 24-h L_{eq} value was below the FEIS prediction after the primary filtering, therefore sound recordings were not required to be reviewed.

After data filtering, the calculated 24-h L_{eq} value for event 1 was 38.9 dBA, and for event 2, the 24-h L_{eq} value was 37.1 dBA, which are both below the FEIS prediction (39.8 dBA) and noise monitoring criterion (45 dBA).

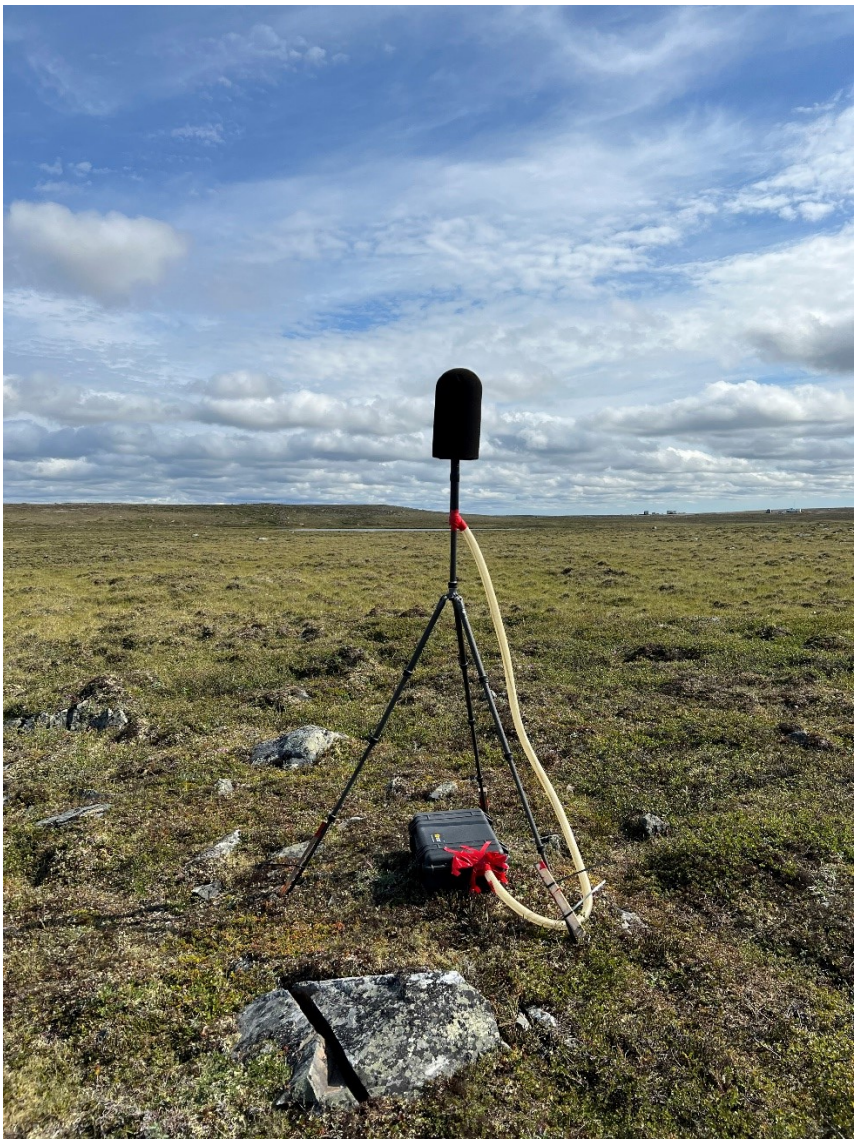

Figure 2. Noise monitoring location NPOR006a (July 28, 2022).

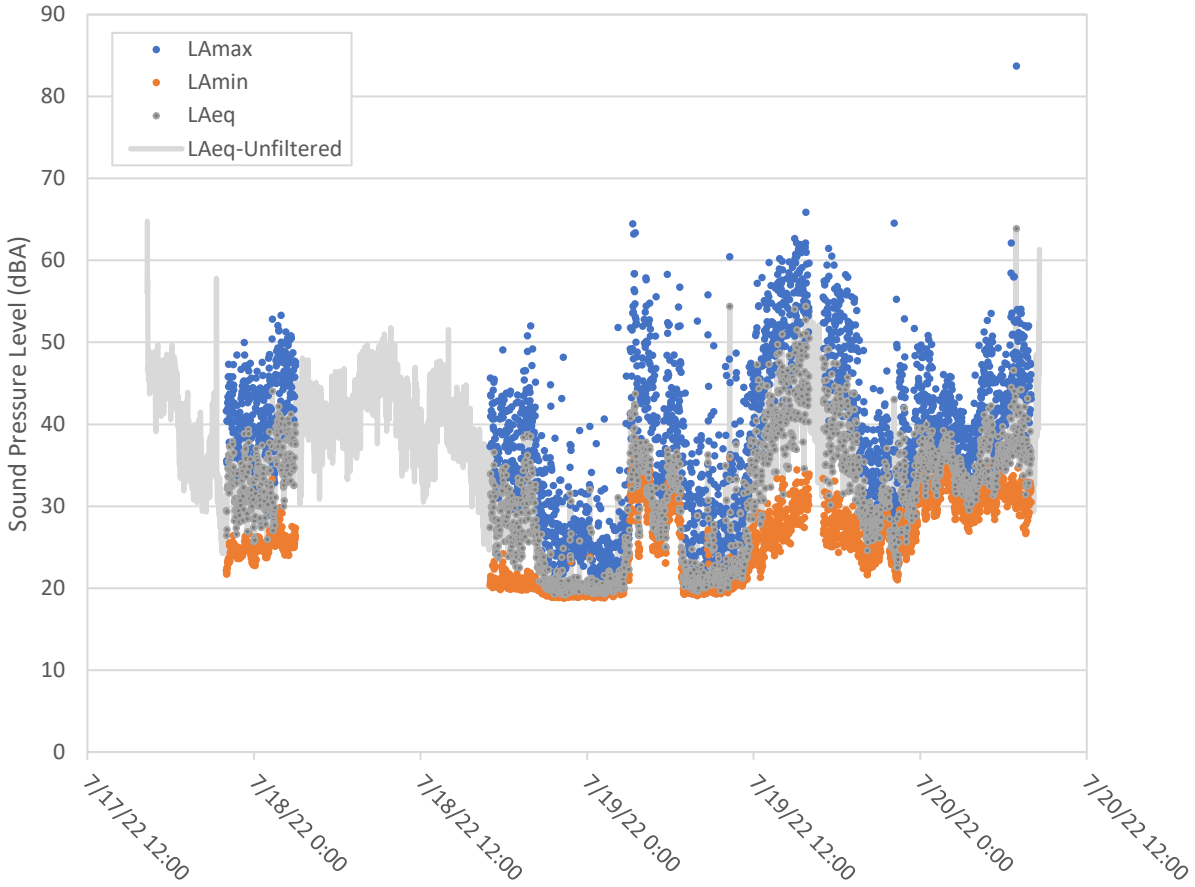

Figure 3. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR006a during monitoring event 1.

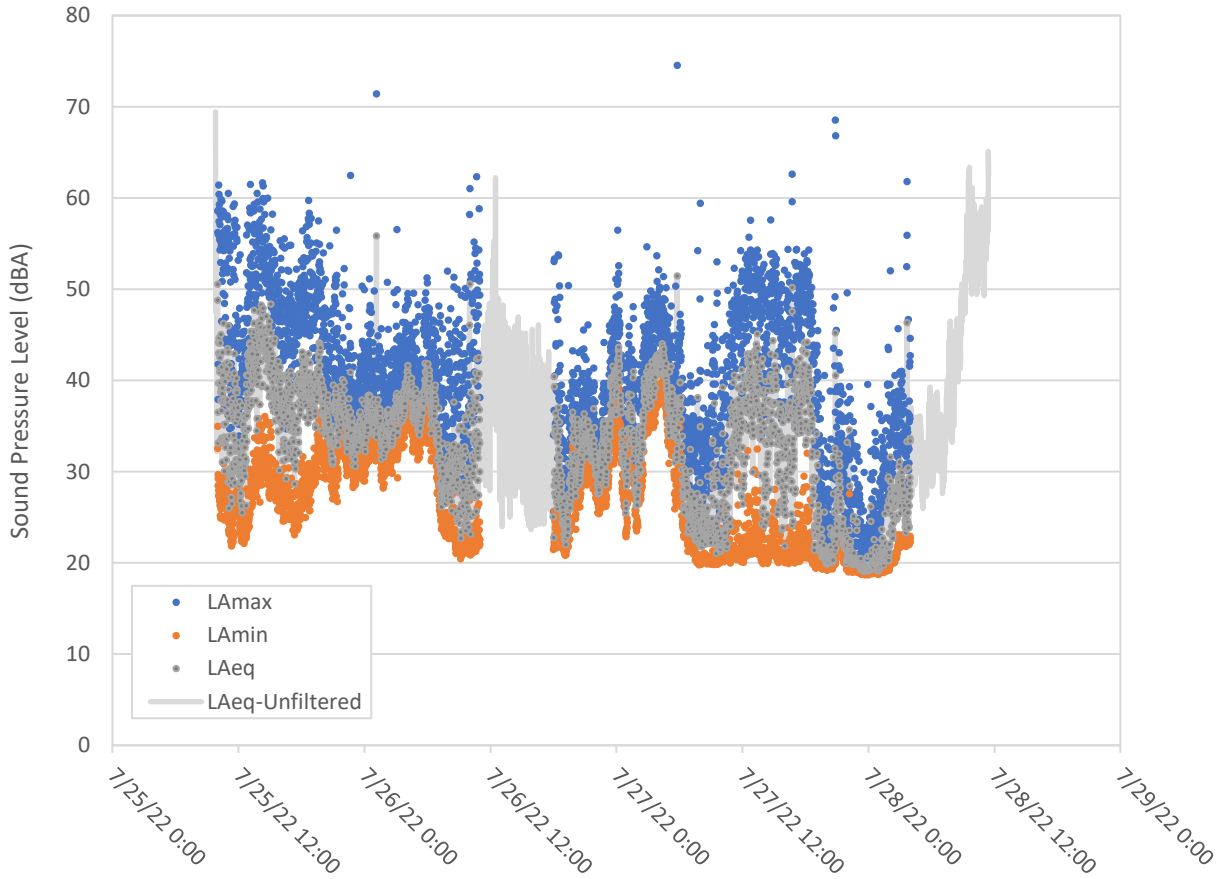

Figure 4. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR006a during monitoring event 2.

3.2 NPOR008

Recorded 1-min L_{eq} values for monitoring events 1 and 2 at NPOR008 are shown in Figures 6 and 7. For monitoring event 1 at this station (July 21 - 24), 73 h of monitoring were conducted, and 69 h of valid data were available after filtering. For monitoring event 2 (July 29 – August 1), 72 h of monitoring were conducted, and no valid data was available after filtering, due to high winds. For monitoring event 3 (August 26 – 29), 80 h of monitoring were conducted, and 11 h of valid data were available after filtering, due to high winds.

Possible noise sources noted in the field log at this location are generally limited to wildlife and potential for local boats. During monitoring event 1 (July 21 – 24), helicopters were grounded due to caribou migration, but for events 2 and 3, helicopters were noted as a potential noise source in the field logs.

For event 1, the 24-h L_{eq} value was below the FEIS prediction after the primary filtering, so sound recordings were not required to be reviewed. For event 2, all data points were filtered out due to high winds (> 15 km/h) throughout the event. For event 3, review of the data and sound recordings indicated that elevated recorded sound levels were generally caused by local wind gusts, and these data points were removed during the secondary filtering step (as described in Section 2.6.1.2).

After all data filtering, the calculated 24-h L_{eq} values for events 1 and 3 were 31.5 dBA and 40.0 dBA, respectively, which are both less than the FEIS prediction of 41.7 dBA, and the noise monitoring criterion (45 dBA). The night-time L_{eq} values for event 1 was 37.5 dBA, which do not exceed the design target of 40 dBA for 1.5 km from the mine SSA. For event 3 the night-time L_{eq} value was 40.1 dBA, which marginally exceeds the design target of 40 dBA. However this slight exceedance was determined to be due to elevated local wind gusts during one or two hours just before a sustained L90>35 dBA was reached, since review of sound recordings for these time points identified no mine-related noise and audible wind interference.

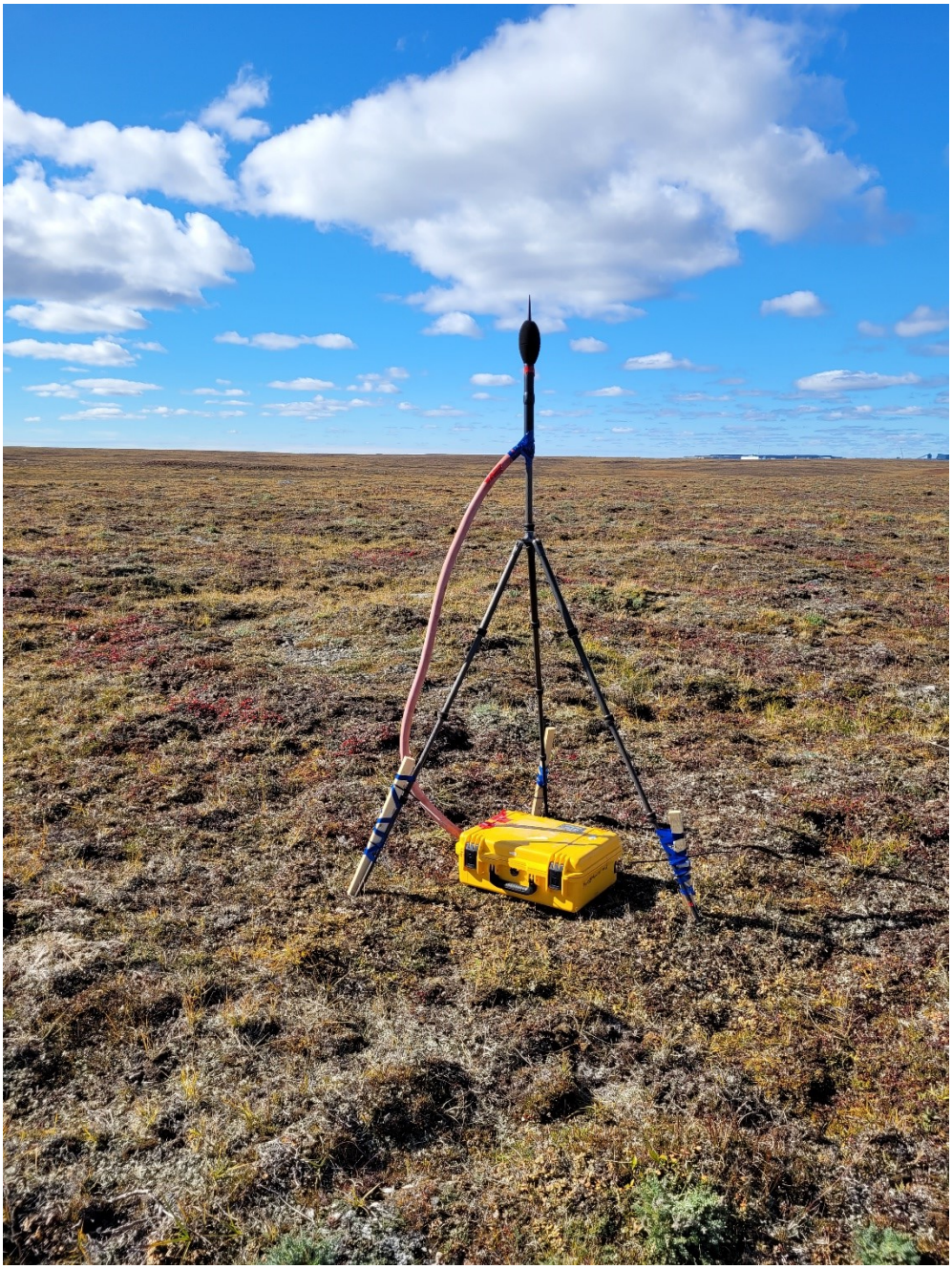

Figure 5. Noise monitoring location NPOR008 (August 26, 2022).

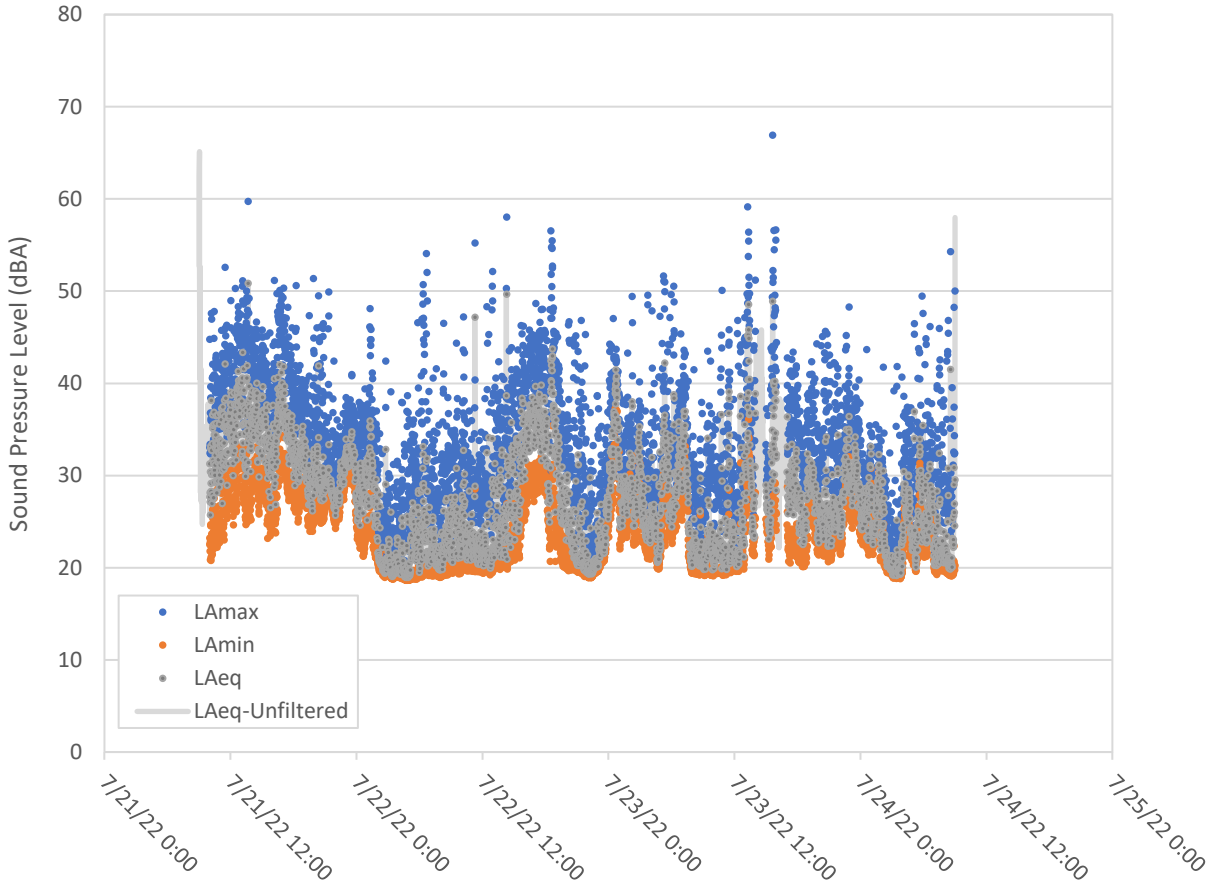

Figure 6. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR008 during monitoring event 1.

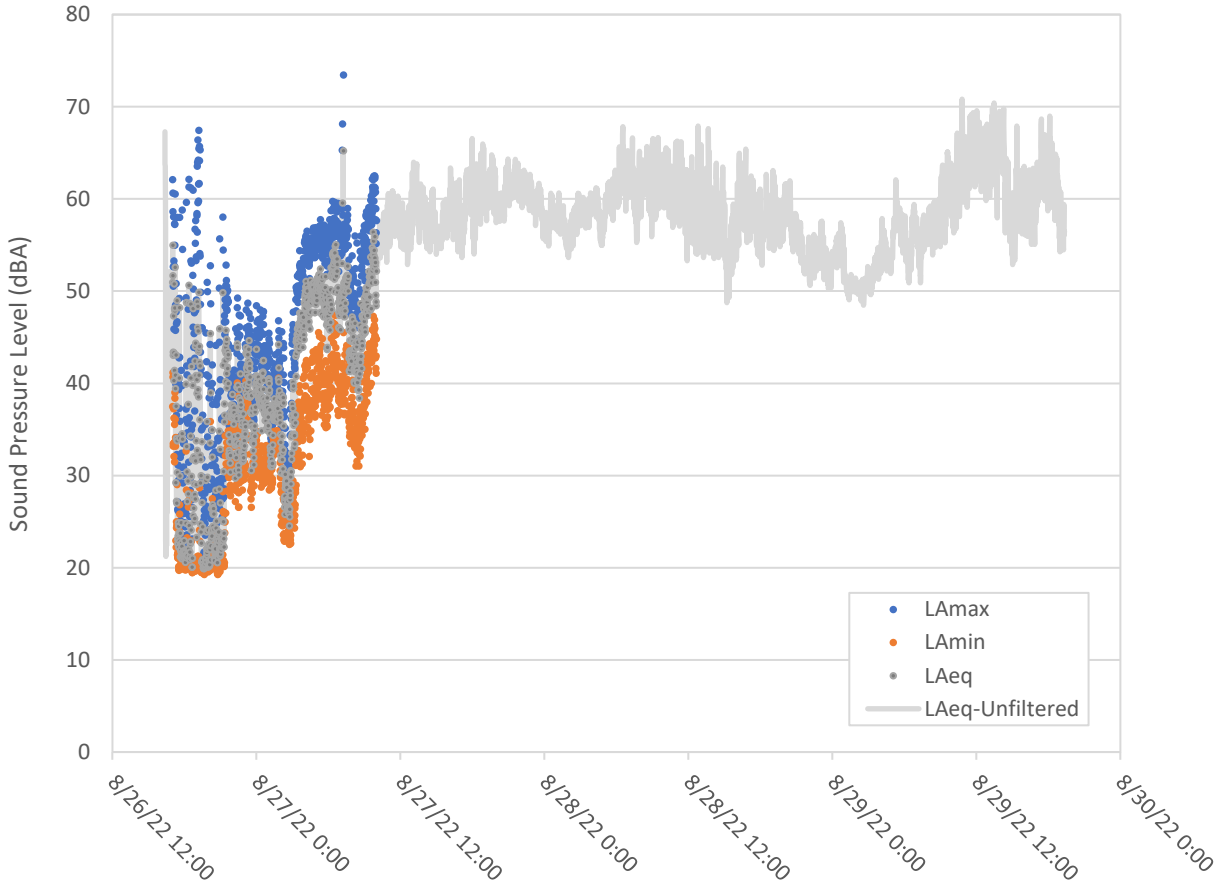

Figure 7. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR008 during monitoring event 3.

3.3 NPOR014A

No construction or operational activity is currently occurring in the area of NPOR014a, but monitoring was conducted in 2022 opportunistically. Results are assumed representative of background sound levels.

Recorded 1-min L_{eq} values for monitoring events 1 and 2 at NPOR014a are shown in Figures 9 and 10. For event 1 (July 30 – August 3), 95 h of monitoring were conducted, and 11 h of valid data were available after filtering. For event 2 (August 13 - 18), 116 h of monitoring were conducted, and 74 h of valid data were available after filtering.

Noise sources noted in the field log for this location in 2022 include potential for helicopter and boat traffic, and the possibility for human activities at the nearby cabin including boats and hunting.

For events 1 and 2, the 24 h L_{eq} was below the FEIS prediction after the primary filtering, so sound recordings were not required to be reviewed in detail.

Final calculated 24-h L_{eq} values for events 1, and 2 were 39.2 dBA and 36.7 dBA which are below the FEIS prediction (44.7 dBA) and noise monitoring criterion (45 dBA).

Figure 8. Noise monitoring location NPOR014a (July 30, 2022).

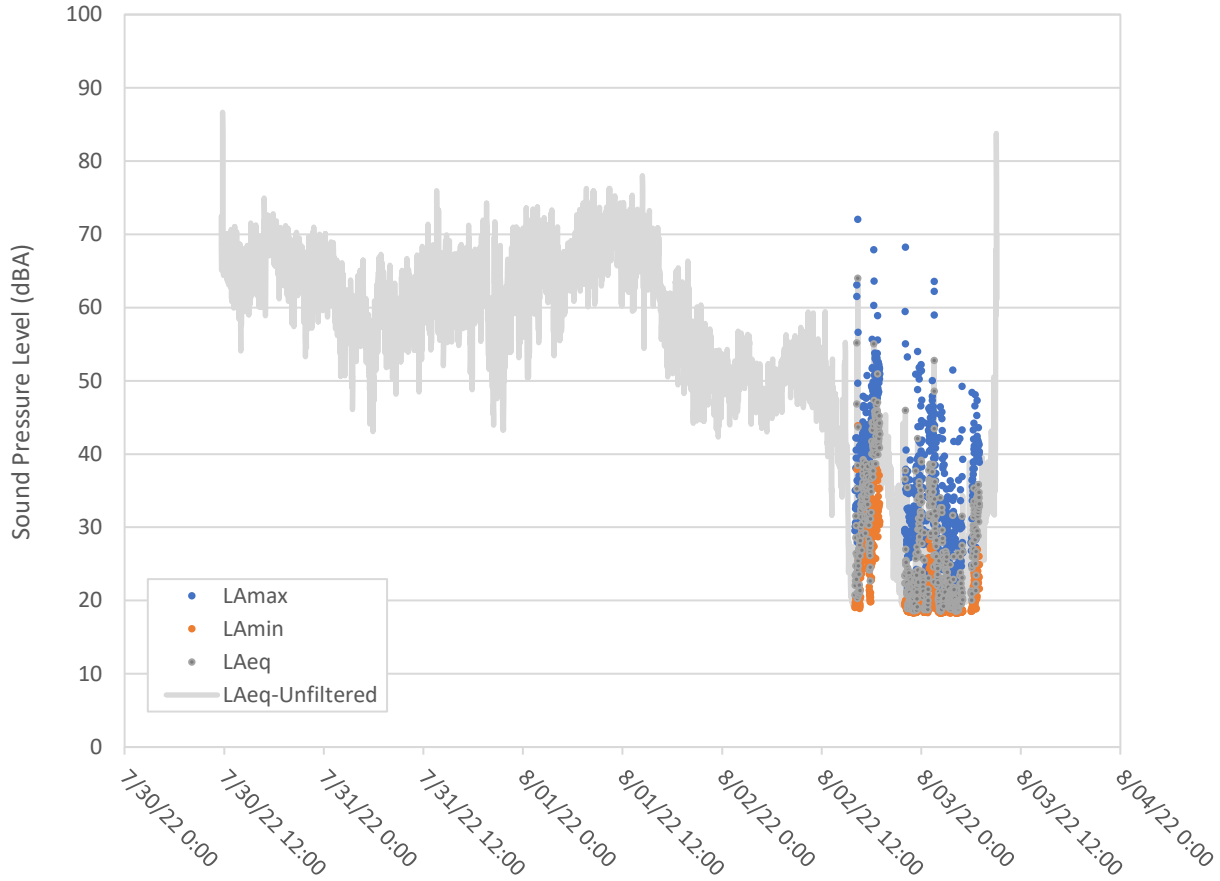

Figure 9. 1-min L_{max}, L_{min}, and L_{eq} values recorded during monitoring event 1 at site NPOR014a.

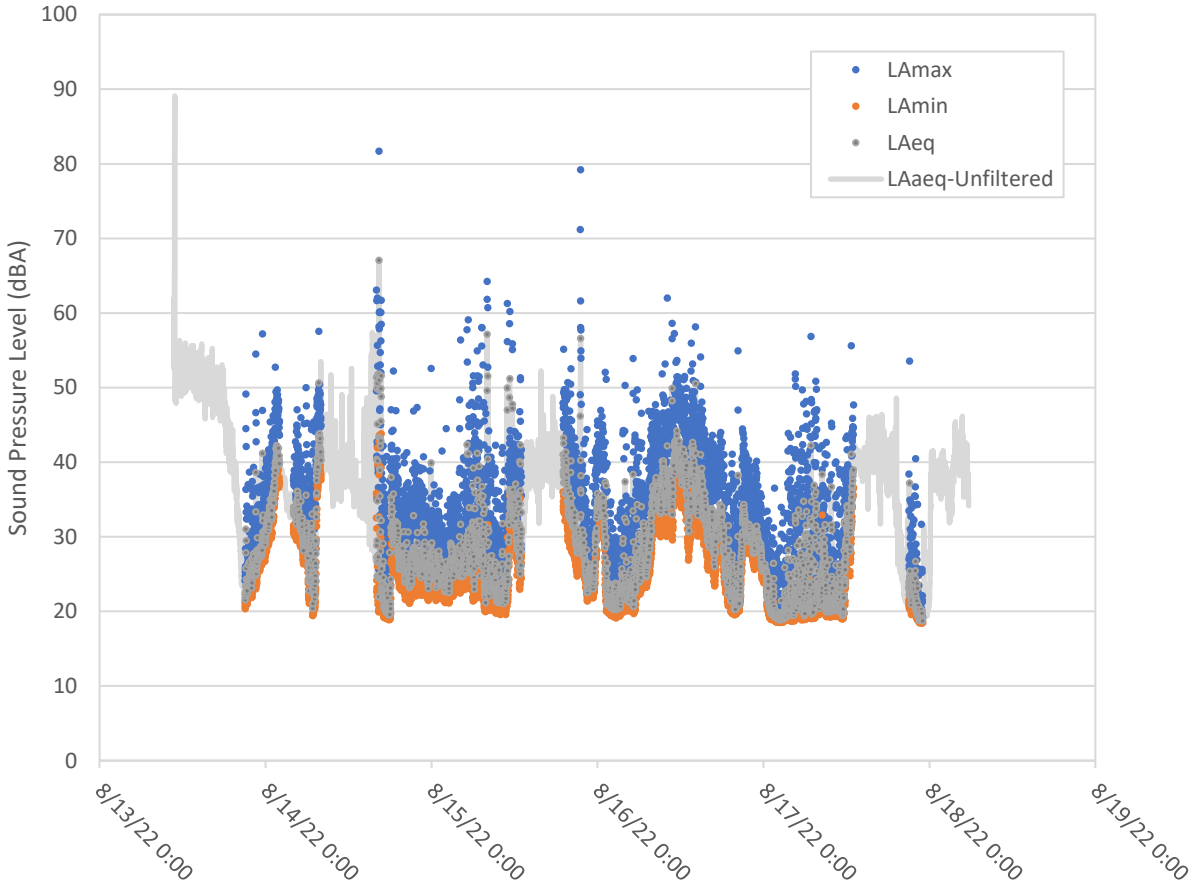

Figure 10. 1-min L_{max}, L_{min}, and L_{eq} values recorded during monitoring event 2 at site NPOR014a.

3.4 NPOR017A

Recorded 1-min L_{eq} values over monitoring events 1, 2, and 3 at NPOR017a are shown in Figures 12, 13 and 14. For event 1 (July 21 - 24), 77 h of monitoring were conducted, and 73 h of valid data were available after filtering. For event 2 (August 2 - 5), 73 h of monitoring were conducted, and 24 h of valid data were available after filtering. For event 3 (September 13 - 16), 68 h of monitoring were conducted and 16 h of valid data were available after filtering.

This station is located 150 m from the AWAR. Noise sources noted in the field log include AWAR traffic.

For events 1, 2, and 3, the 24 h L_{eq} was below the FEIS prediction after the primary filtering, so sound recordings were not required to be reviewed in detail.

After all data filtering, the calculated final 24-h L_{eq} value for events 1, 2, and 3 were 33.4 dBA, 36.3 dBA, and 41.9 dBA respectively. These values do not exceed the FEIS prediction of 43.4 dBA, or the noise monitoring criterion (45 dBA).

Figure 11. Noise monitoring location NPOR017a (July 25, 2022).

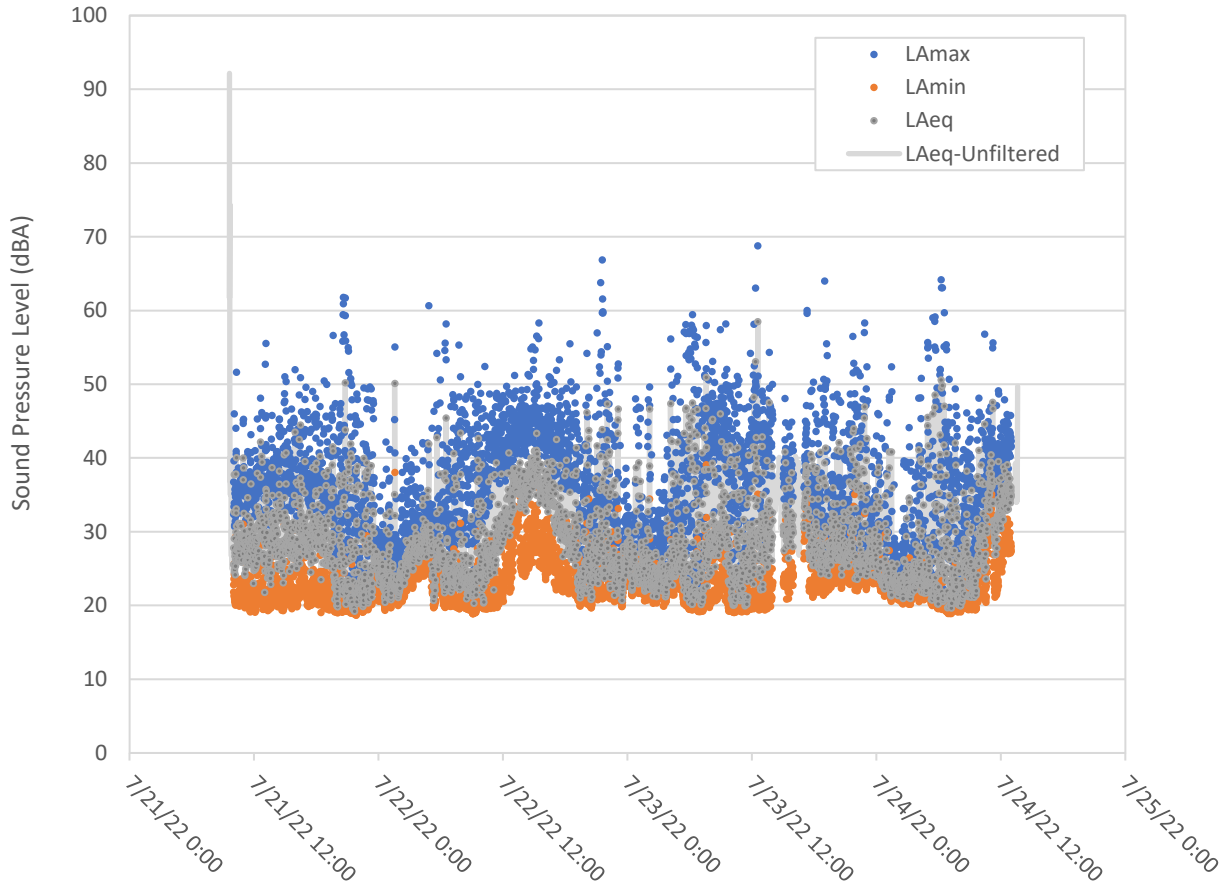

Figure 12. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR017a during monitoring event 1.

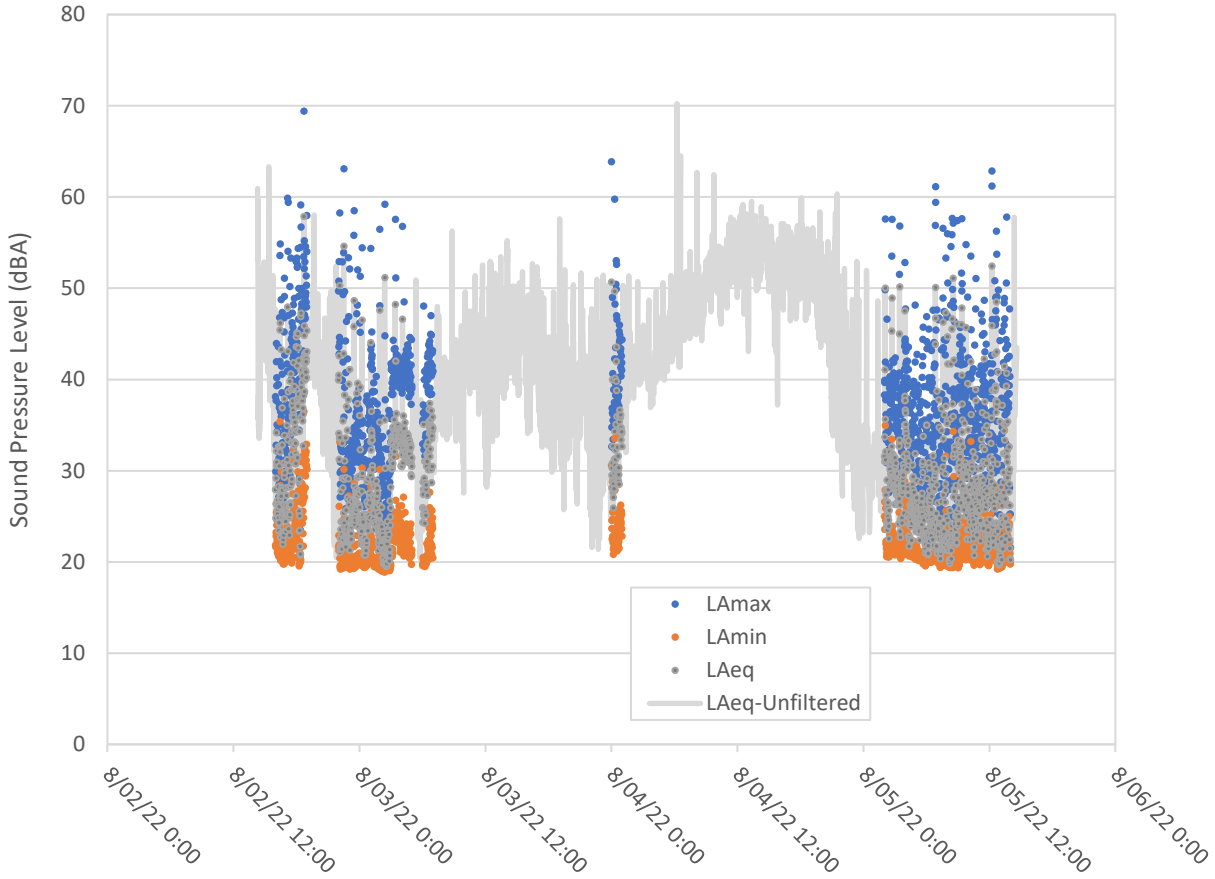

Figure 13. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR017a during monitoring event 2.

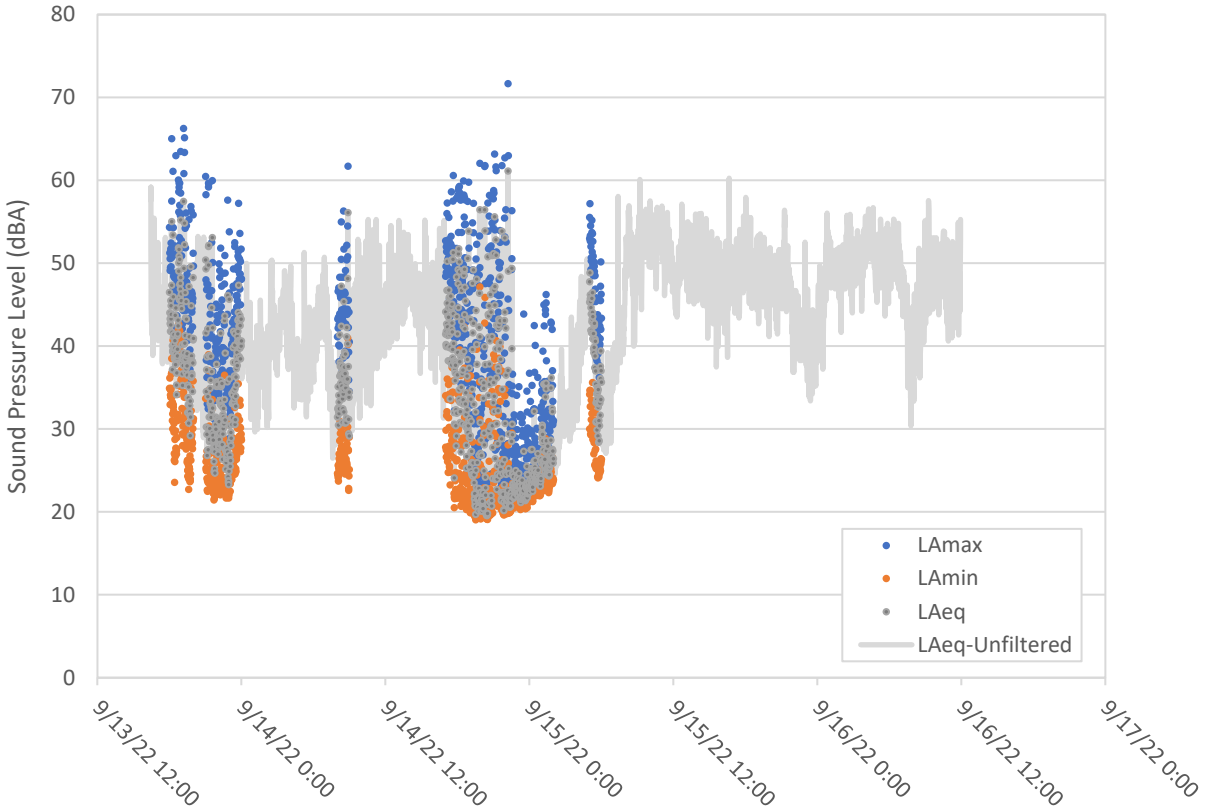

Figure 14. 1-min L_{max}, L_{min}, and L_{eq} values recorded at site NPOR017a during monitoring event 3.

4 HISTORICAL COMPARISON

A historical comparison of all available 24-h L_{eq} values for each monitoring site is provided in Figures 15 – 18.

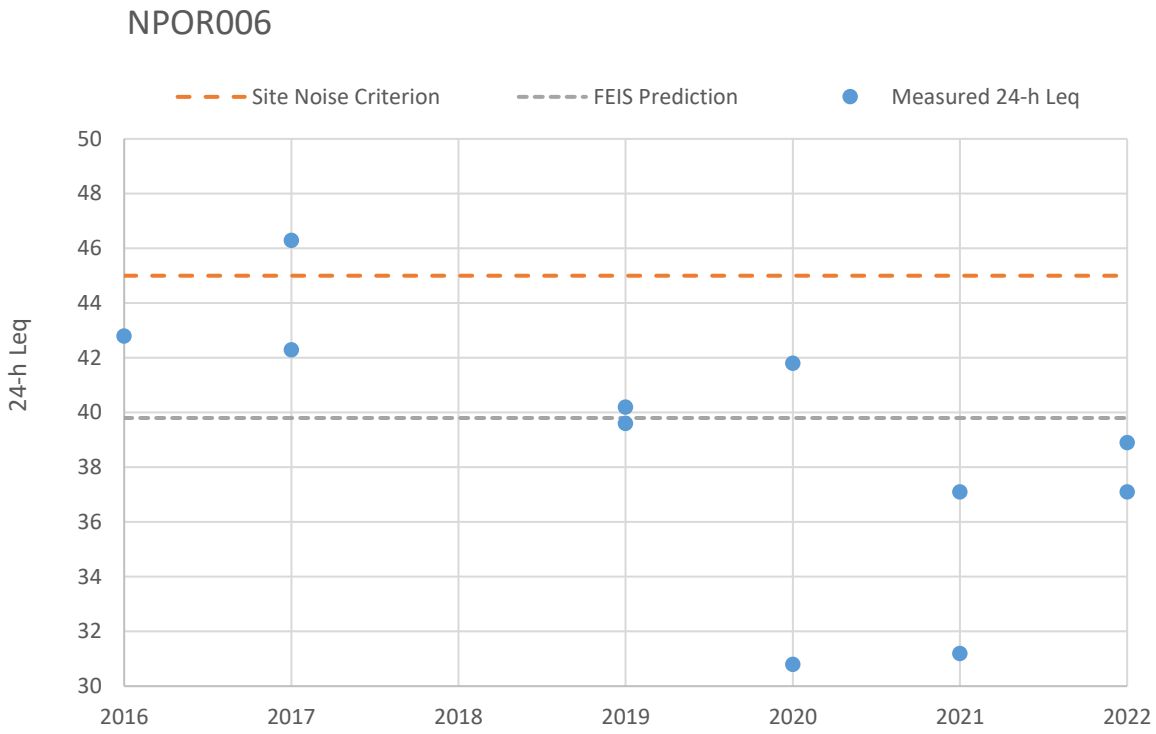

Figure 15. Historical noise monitoring results (24-h L_{eq} values) for site NPOR006 (2016 – 2019) and NPOR006a (2020+). In 2016 and 2017, ongoing works at the adjacent cabin may have contributed to an elevated background acoustic environment but sound recording were not available at that time to assist in data filtering. Insufficient valid data was available in 2018 to calculate L_{eq} values.

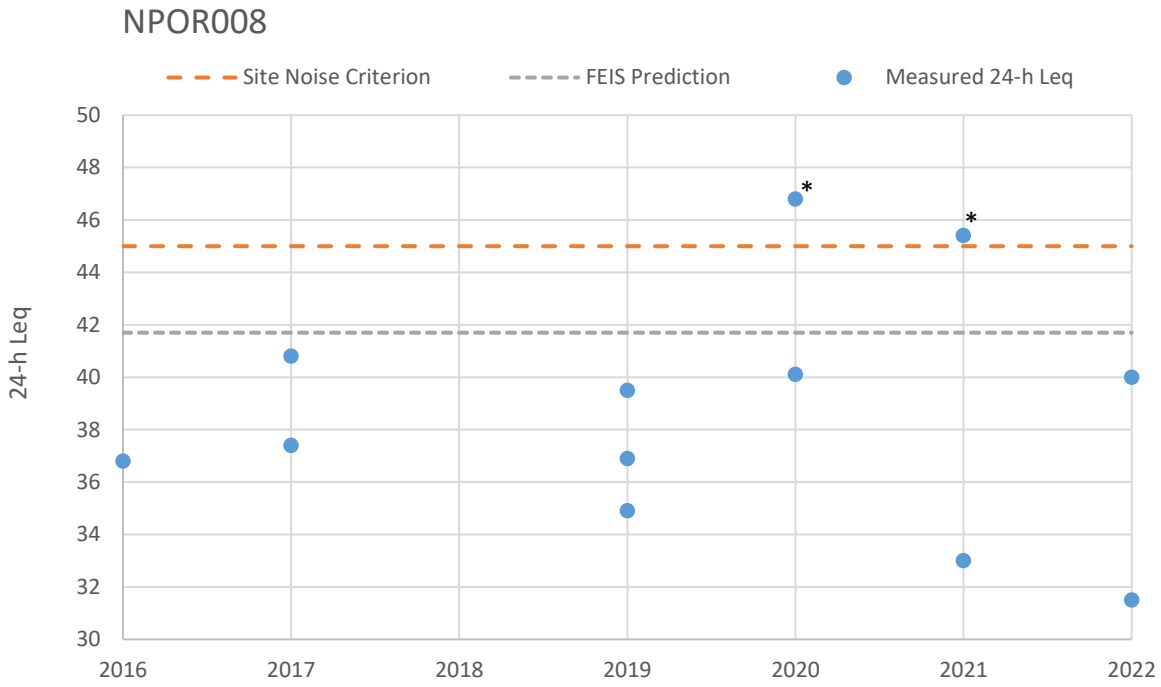

Figure 16. Historical noise monitoring results (24-h L_{eq} values) for site NPOR008. Insufficient valid data was available in 2018 to calculate L_{eq} values. * Exceedance related to helicopter traffic that is time-limited and/or exploration-related (not suitable for comparison to FEIS prediction).

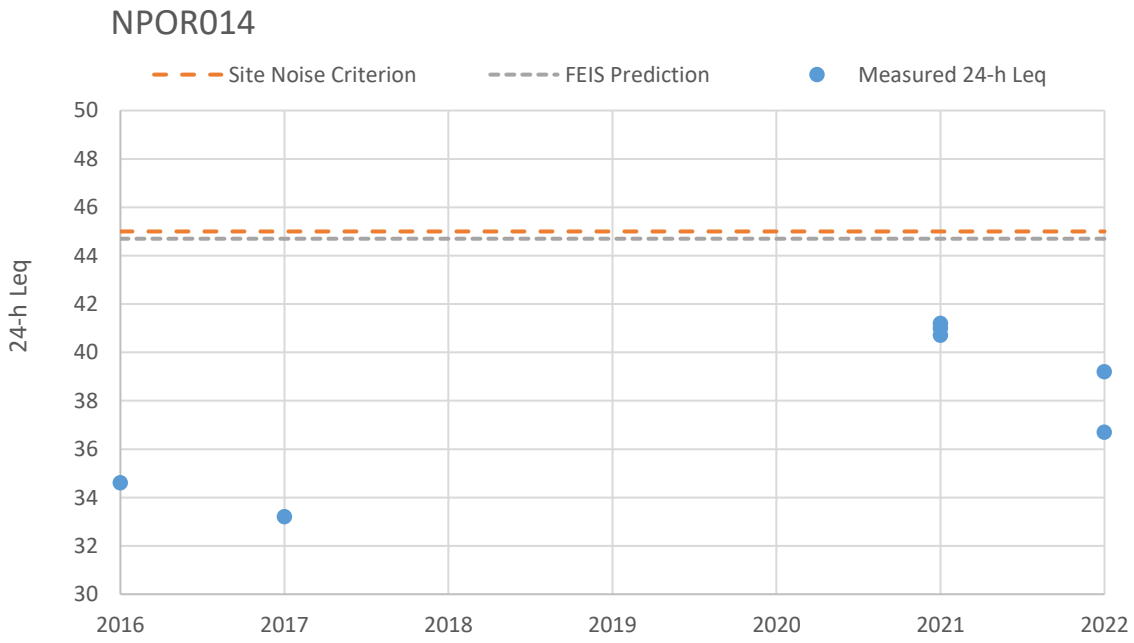

Figure 17. Historical noise monitoring results (24-h L_{eq} values) for sites NPOR014 (2016 – 2017) and NPOR014a (2021+). Insufficient valid data was available after filtering in 2018 to calculate the 24-h L_{eq}. Monitoring was not conducted in 2019 or 2020. No mining activity has yet occurred in this area.

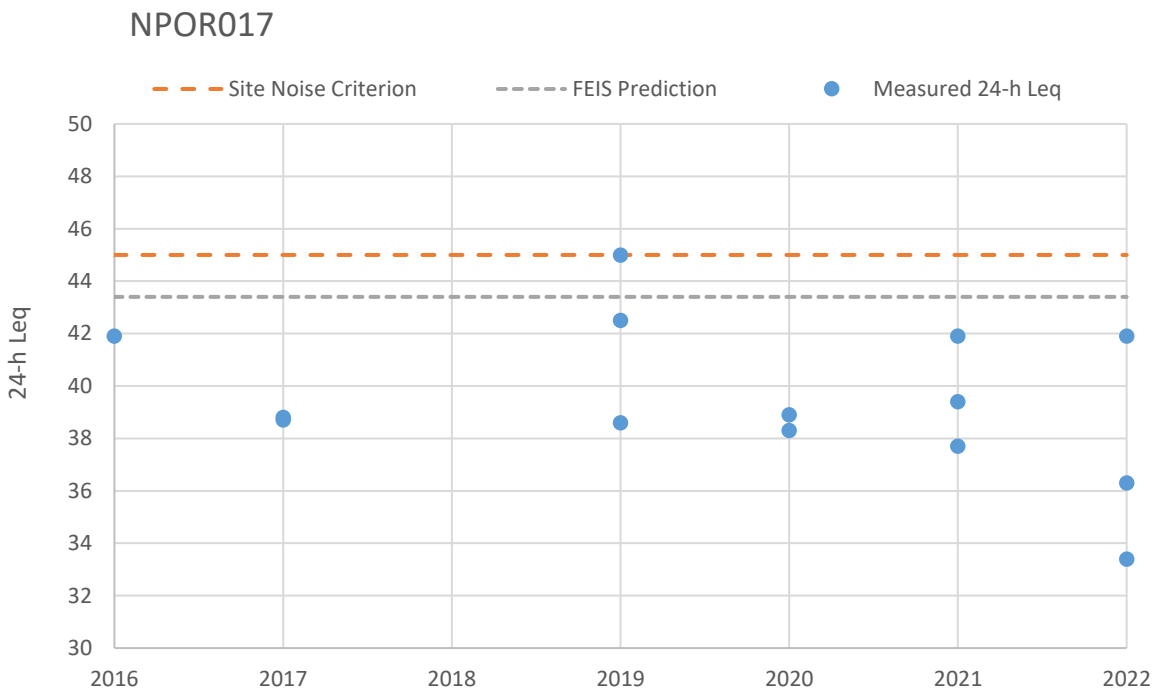

Figure 18. Historical noise monitoring results (24-h L_{eq} values) for site NPOR017 (2016 – 2019) and NPOR017a (2020+). Insufficient valid data was available in 2018 to calculate L_{eq} values.

5 CONCLUSION

The objective of the noise monitoring program at Meliadine is to measure noise levels at three or four previously determined monitoring locations over at least two 24 h periods to help inform the need for noise mitigation.

In 2022, Agnico Eagle conducted two or three successful rounds of monitoring for all required stations (NPOR006a, NPOR008, and NPOR017a) plus opportunistic monitoring at NPOR014a. Monitoring at NPOR014a is not yet required because construction or operational activities related to the Discovery Pit area are not ongoing.

A summary of the noise monitoring results for 2022 is provided in Table 7.

For all stations, sufficient valid data was available after filtering to calculate 24-h and night-time L_{eq} values for comparison to FEIS predictions and noise monitoring criteria.

For all stations and monitoring events, 24-h L_{eq} values were less than FEIS predictions and the site's noise monitoring criteria for this averaging time.

A single marginal exceedance of the night-time design target (40.0 dBA) occurred, with a recorded value of 40.1 dBA at NPOR08 during the second monitoring event. However, this exceedance was determined to be caused by local elevated wind gusts, and was not mine-related.

To date, no noise-related complaints have been received for the Meliadine site. Based on these findings, no changes to existing noise monitoring plans and mitigation measures are proposed.

Table 7. Summary of noise monitoring results in 2022. Values exceeding FEIS predictions, criteria and/or design targets are in bold. "-" indicates not applicable. *An additional survey was conducted at NPOR008 from July 9 – August 1 but all data was filtered out due to high winds. ^Marginal exceedance of design target due to local wind gusts – no mine-related noise audible.

Location	**Monitoring Start**	**Monitoring End**	*Noise Monitoring Criterion* $L_{eq(24\ h)}$ *(dBA)*	*FEIS Prediction* $L_{eq(24\ h)}$ *(dBA)*	**Measured $L_{eq(24\ h)}$ (dBA)**	*Design Target* $L_{eq\ (nighttime)}$ *(dBA)*	**Measured $L_{eq\ (nighttime)}$ (dBA)**
NPOR006a	7/17/22 16:18	7/20/22 8:35	*45*	*39.8*	38.9	-	-
	7/25/22 9:49	7/28/22 11:27			37.1		-
NPOR008*	7/21/22 9:01	7/24/22 9:01	*45*	*41.7*	31.5	*40*	28.6
	8/26/22 16:22	8/29/22 23:59			40.0		**(40.1)^**
NPOR014a	7/30/22 11:39	8/03/22 9:08	*45*	*44.7*	39.2	-	-
	8/13/22 10:45	8/18/22 5:40			36.7		-
NPOR017a	7/21/22 9:37	7/24/22 13:36	*45*	*43.4*	33.4	-	-
	8/02/22 14:18	8/05/22 14:37			36.3		-
	9/13/22 16:26	9/16/22 11:56			41.9		-

6 ACTIONS

No specific supplemental actions related to noise mitigation or monitoring were planned for 2022, and none are planned for 2023.

Monitoring will continue to be conducted at NPOR008, as well as alternate monitoring stations NPOR006a, NPOR017a, and NPOR014a to facilitate ongoing historical comparisons. Monitoring is not planned for NPOR005, since it was previously identified as an alternate for NPOR006.

No significant construction activities related to the Discovery Pit are planned in 2023, therefore monitoring will again be conducted opportunistically at NPOR014a, as feasible.

Appendix A: Field Notes

Monitoring Starts

Sample ID: NPOR17A	Cloud Cover: 95%
Date: 2022-07-21	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: SK	Air Temperature (°C): 10°C
Calibration Completed: (Y)N	Wind Speed (km/h): 10.6km/h
Sensitivity: 30.25	Wind Direction: N
Deviation: 0.00	Relative Humidity (%): 55.6
Time of Calibration: 9:35	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y)N	Barometric Pressure (kPa): (
Photographs of Surroundings: (Y)N	Northing: 546152
Check Available Memory on SD Card: (Y)N	Easting: 6971998
Battery Power Check: (Y)N	Noise Monitor Start Time: 9:40

General Site Description

Type of Ground Surface:	Tundra
Traffic in Area:	ATVs, Trucks (AWAR 160m away) quest
Human Activities in Area:	NA
Animals in Area:	N/A
Other Noise Sources:	N/A

Monitoring Ends

Sample ID: NPOR17A	Cloud Cover: Partly Cloudy (50%)
Date: 2022-07-24	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: SK	Air Temperature (°C): 15C
Calibration Completed: (Y)N	Wind Speed (km/h): 17
Sensitivity: 30.31	Wind Direction: SE
Deviation: 0.02	Relative Humidity (%): 7
Time of Calibration: 2022-07-25 7:45am	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y)N	Barometric Pressure (kPa): 101.6
Photographs of Surroundings: (Y)N	Northing: 546152
Check Available Memory on SD Card: (Y)N	Easting: 6971998
Battery Power Check: (Y)N	Noise Monitor End Time: 1:45pm

canada weather Rankin

pick and go as potential of polar bear in the area.

E 537978 N6991742 NOISE #2

Monitoring Starts

Sample ID: NPOR05	Cloud Cover: 5%
Date: 2022-07-25	Height of Clouds: Med (0-10 000 / 10 000-25 000 / 25 000+)
Operators: OM - AT	Air Temperature (°C): 20.6 °C
Calibration Completed: (Y/N)	Wind Speed (km/h): 12.6 km/h
Sensitivity: 30.40 mv/Pa	Wind Direction: East
Deviation: 0.04 dba	Relative Humidity (%): 46.3%
Time of Calibration: 10:15AM	Precipitation: (None) / Drizzle / Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 101.4 kpa
Photographs of Surroundings: (Y/N)	Northing: 537978
Check Available Memory on SD Card: (Y/N)	Easting: 6991742
Battery Power Check: (Y/N)	Noise Monitor Start Time:

General Site Description

Type of Ground Surface: Tundra, wet puddles

Traffic in Area: vehicules travelling on Dyno road ≈ 1km South + local ATVs

Human Activities in Area: Rob brown's cabin ≈ 380m SE

Animals in Area: None

Other Noise Sources:
helicopters still grounded at the moment of deployement
Boats could pass near by on Meliadine lake

Monitoring Ends

Sample ID: NPOR05	Cloud Cover: 20%
Date: 2022-07-28	Height of Clouds: (0-10 000) / 10 000-25 000 / 25 000+
Operators: SK	Air Temperature (°C): 17.8
Calibration Completed: (Y/N)	Wind Speed (km/h): 22.3
Sensitivity: 30.38	Wind Direction: N
Deviation: -0.01	Relative Humidity (%): 57.8%
Time of Calibration: 9:50am	Precipitation: (None) / Drizzle / Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 537978
Check Available Memory on SD Card: (Y/N)	Easting: 6991742
Battery Power Check: (Y/N)	Noise Monitor End Time: 9:45am

E 537550 N 6991300 NOISE #1

Monitoring Starts

Sample ID: NPOR06a	Cloud Cover: 5%
Date: 2022-07-25	Height of Clouds: 0-10 000 (10 000-25 000) 25 000+ — Med
Operators: DM - AT	Air Temperature (°C): 19.6 °C
Calibration Completed: (Y/N)	Wind Speed (km/h): 8.7 km/h
Sensitivity: 30.26 mv/Pa	Wind Direction: East
Deviation: -0.02 dba	Relative Humidity (%): 44.2%
Time of Calibration: 9:38 AM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 101.4 kpa
Photographs of Surroundings: (Y/N)	Northing: 537550
Check Available Memory on SD Card: (Y/N)	Easting: 6991300
Battery Power Check: (Y/N)	Noise Monitor Start Time: 9:50 AM

General Site Description

Type of Ground Surface: Tundra

Traffic in Area: vehicules travelling on dyno road ≈500 South + local ATVs

Human Activities in Area: Rob brown's cabin ≈690m East

Animals in Area: None

Other Noise Sources:
helicopters still grounded at the moment of deployement
Boats could be heard from Mel-lake

Monitoring Ends

Sample ID: NPOR06A	Cloud Cover: 30%
Date: 2022-07-28	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: SK	Air Temperature (°C): 18.1
Calibration Completed: (Y/N)	Wind Speed (km/h): 24.3
Sensitivity: 30.08	Wind Direction: N
Deviation: -0.05	Relative Humidity (%): 56.9
Time of Calibration: 11:30am	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 537550
Check Available Memory on SD Card: (Y/N)	Easting: 6991300
Battery Power Check: (Y/N)	Noise Monitor End Time: 11:30am

Monitoring Starts

Sample ID: NPOR08	Cloud Cover: 25%
Date: 2022-07-29	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: SK-RS	Air Temperature (°C): 17.7
Calibration Completed: (Y/N)	Wind Speed (km/h): 24.1 max 29.6
Sensitivity: 30.39	Wind Direction: N
Deviation: 0.00	Relative Humidity (%): 54.8
Time of Calibration: 1:20	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 543710
Check Available Memory on SD Card: (Y/N)	Easting: 6987272
Battery Power Check: (Y/N)	Noise Monitor Start Time: 1:30

General Site Description

Type of Ground Surface: Tundra
Traffic in Area: Helicopter
Human Activities in Area: Local boat traffic
Animals in Area: None observed
Other Noise Sources: High wind / Rain

Monitoring Ends

Sample ID: NPOR08	Cloud Cover: 100%
Date: 2022-08-01	Height of Clouds: 0-10 000 (10 000-25 000) 25 000+
Operators: SK-RS	Air Temperature (°C): 10.7
Calibration Completed: (Y/N)	Wind Speed (km/h): 36.4
Sensitivity: 30.07 mV/Pa	Wind Direction: NW
Deviation: -0.09 dB	Relative Humidity (%): 75.1
Time of Calibration: 13.50	Precipitation: None Drizzle (Rain)
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 543710
Check Available Memory on SD Card: (Y/N)	Easting: 6987272
Battery Power Check: (Y/N)	Noise Monitor End Time: 12.45

Monitoring Starts

Sample ID: NPOR14A	Cloud Cover: 70%
Date: 2022-07-30	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: SK - ZL	Air Temperature (°C): 13.6
Calibration Completed: (Y/N)	Wind Speed (km/h): 25.9
Sensitivity: 30.24	Wind Direction: NNE
Deviation: 0.04	Relative Humidity (%): 69.1
Time of Calibration: 11:26	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 5419825
Check Available Memory on SD Card: (Y/N)	Easting: 6982593
Battery Power Check: (Y/N)	Noise Monitor Start Time: 11:40

General Site Description

Type of Ground Surface: Tundra

Traffic in Area: Potential helicopter traffic, local boat activity

Human Activities in Area: Cabins somewhat close by, potential for hunting

Animals in Area: None observed

Other Noise Sources: Highwinds / rain

Monitoring Ends

Sample ID: NPOR14a	Cloud Cover: 50%
Date: 2022-08-03	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: JR.	Air Temperature (°C): 9.3
Calibration Completed: (Y/N)	Wind Speed (km/h): 19.6
Sensitivity: 30.14 mV/Pa	Wind Direction: NW
Deviation: -0.03 dB	Relative Humidity (%): 97%
Time of Calibration: 10:09	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 5419825
Check Available Memory on SD Card: (Y/N)	Easting: 6982593
Battery Power Check: (Y/N)	Noise Monitor End Time: 10:00

Monitoring Starts

Sample ID: NRC017a	Cloud Cover: 50%
Date: 2022-08-02	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: JR RS	Air Temperature (°C): 13°C
Calibration Completed: (Y/N)	Wind Speed (km/h): 10.6 (17.4)
Sensitivity: 30.15	Wind Direction: ENE
Deviation: 0.02	Relative Humidity (%): 79.4
Time of Calibration: 14:10	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 5462666
Check Available Memory on SD Card: (Y/N)	Easting: 6972102
Battery Power Check: (Y/N)	Noise Monitor Start Time: 14:17

General Site Description

Type of Ground Surface:	tundra
Traffic in Area:	vehicle, closed to road
Human Activities in Area:	closed to Rankin.
Animals in Area:	sik sik fox
Other Noise Sources:	

Monitoring Ends

Sample ID:	Cloud Cover: 70%
Date: 2022-08-05	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: MM/BF	Air Temperature (°C): 16.5°C
Calibration Completed: (Y/N)	Wind Speed (km/h): 11.5
Sensitivity: ~~30.15~~ 30.09	Wind Direction: ~~WSW~~ ESE
Deviation: ~~0.02~~ -0.09	Relative Humidity (%): 66.8
Time of Calibration: 14:30	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 5462688
Check Available Memory on SD Card: (Y/N)	Easting: 6972102
Battery Power Check: (Y/N)	Noise Monitor End Time: 14:31

Animals - Sandhill cranes (noisy)
helicopter nearby

Monitoring Starts

Sample ID:	NPOR14a	Cloud Cover:	70%
Date:	2022-08-13	Height of Clouds:	(0-10 000) 10 000-25 000 25 000+
Operators:	IL-BF	Air Temperature (°C):	16.4
Calibration Completed:	(Y/N)	Wind Speed (km/h):	35.1
Sensitivity:	30.51 mv/Pa	Wind Direction:	W-N-W
Deviation:	0.11 dB	Relative Humidity (%):	72.9
Time of Calibration:	10:36	Precipitation:	(None) Drizzle Rain
Photographs of Set up:	(Y/N)	Barometric Pressure (kPa):	–
Photographs of Surroundings:	(Y/N)	Northing:	6982605
Check Available Memory on SD Card:	(Y/N)	Easting:	549849
Battery Power Check:	(Y/N)	Noise Monitor Start Time:	10:48

NPOR17a
0 card

General Site Description

Type of Ground Surface:	Tundra
Traffic in Area:	Helicopter
Human Activities in Area:	Ø
Animals in Area:	Ø
Other Noise Sources:	Ø

Monitoring Ends

Sample ID:	NPOR014a	Cloud Cover:	
Date:		Height of Clouds:	0-10 000 10 000-25 000 25 000+
Operators:	SK	Air Temperature (°C):	9.7
Calibration Completed:	not in field (Y/N)	Wind Speed (km/h):	17
Sensitivity:	30.37	Wind Direction:	SW
Deviation:	– 0.04 db	Relative Humidity (%):	60.5
Time of Calibration:	2022-09-08	Precipitation:	None Drizzle Rain
Photographs of Set up:	(Y/N)	Barometric Pressure (kPa):	
Photographs of Surroundings:	(Y/N)	Northing:	
Check Available Memory on SD Card:	(Y/N)	Easting:	
Battery Power Check:	dead (Y/N)	Noise Monitor End Time:	

Monitoring Starts

Sample ID: NPOR08 (Round 3)	Cloud Cover: Cirrus - Some Stratus 50%
Date: 2022-08-25	Height of Clouds: 0-10 000 (10 000-25 000) 25 000+
Operators: SK-RS	Air Temperature (°C): 12.6°C
Calibration Completed: (Y/N)	Wind Speed (km/h): 1,2 km/h
Sensitivity: 30.21	Wind Direction: WSW
Deviation: 0.03	Relative Humidity (%): 46.4
Time of Calibration: 4:18pm	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 15-543707
Check Available Memory on SD Card: (Y/N)	Easting: 6987276
Battery Power Check: (Y/N)	Noise Monitor Start Time: 4:20pm

General Site Description

Type of Ground Surface: Tundra	
Traffic in Area: Helicopters	
Human Activities in Area: Helicopter	
Animals in Area: Caribou, Geese, Small birds	
Other Noise Sources:	

Monitoring Ends

Sample ID: NPOR08	Cloud Cover: Partial cloud
Date: 3 Sep 2022	Height of Clouds: 0-10 000 (10 000-25 000) 25 000+
Operators: MM - CM	Air Temperature (°C): 13°C
Calibration Completed: (Y/N)	Wind Speed (km/h): 11.2 (from weather stn.)
Sensitivity:	Wind Direction: 230.7 " "
Deviation:	Relative Humidity (%): 53.2
Time of Calibration:	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 543476 NAD 83
Check Available Memory on SD Card: (Y/N)	Easting: 6987501 15V
Battery Power Check: (Y/N)	Noise Monitor End Time: 2

Monitoring Starts

Sample ID:	NPOR017a	Cloud Cover:	90%
Date:	2022-09-13	Height of Clouds:	0-10 000 / (10 000-25 000) / 25 000+
Operators:	JR AT	Air Temperature (°C):	46.1 F
Calibration Completed:	(Y/N)	Wind Speed (km/h):	12.8
Sensitivity:	30.21	Wind Direction:	NW
Deviation:	−0.05	Relative Humidity (%):	64.7
Time of Calibration:	3:25 pm	Precipitation:	(None) / Drizzle / Rain
Photographs of Set up:	(Y/N) Yes	Barometric Pressure (kPa)	
Photographs of Surroundings:	(Y/N) Yes	Northing:	0546155
Check Available Memory on SD Card:	(Y/N) Yes	Easting:	6972039
Battery Power Check:	(Y/N) Yes	Noise Monitor Start Time:	3:31 pm

General Site Description

Type of Ground Surface:	Tundra
Traffic in Area:	ATV, vehicle, closed to road
Human Activities in Area:	
Animals in Area:	Fox, Rabbit
Other Noise Sources:	N/A

Monitoring Ends

Sample ID:	NPOR017a	Cloud Cover:	50%
Date:	2022-09-16	Height of Clouds:	0-10 000 / (10 000-25 000) / 25 000+
Operators:	JR	Air Temperature (°C):	
Calibration Completed:	mlab (Y/N)	Wind Speed (km/h):	
Sensitivity:	29.98 mV/Pa	Wind Direction:	
Deviation	−0.06 dB	Relative Humidity (%):	
Time of Calibration:	14:40	Precipitation:	(None) / Drizzle / Rain
Photographs of Set up:	(Y/N)	Barometric Pressure (kPa):	
Photographs of Surroundings:	(Y/N)	Northing:	546155
Check Available Memory on SD Card:	(Y/N)	Easting:	6972039
Battery Power Check:	(Y/N)	Noise Monitor End Time:	11:30 Am

E 537978 N6991742

Monitoring Starts

Sample ID: NPOR05	Cloud Cover: 50%.
Date: 2022-07-17	Height of Clouds: 0-10 000 10 000-25 000 (25 000+)
Operators: DM - AR	Air Temperature (°C): 19,3 °C
Calibration Completed: (Y/N)	Wind Speed (km/h): 20 km/h
Sensitivity: 30,29 MV / PA	Wind Direction: NE
Deviation: -0,04DB	Relative Humidity (%): 54,8 %
Time of Calibration: 17h00 PM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 100.5kPa
Photographs of Surroundings: (Y/N)	Northing: 537978
Check Available Memory on SD Card: (Y/N)	Easting: 6991742
Battery Power Check: (Y/N)	Noise Monitor Start Time: 17:10 PM

General Site Description

Type of Ground Surface:

Traffic in Area: vehicules travelling on Dyno road ≈ 1km South + local ATV's

Human Activities in Area: Rob Brown's cabin ≈ 380 m SE

Animals in Area:

Other Noise Sources: "potential noise source"
helicopters are still grounded due to caribou migration
Boats could pass near by on Meliadine lake

Monitoring Ends

Sample ID: NPOR05	Cloud Cover: 10%.
Date: 2022-07-20	Height of Clouds: 0-10 000 10 000-25 000 (25 000+)
Operators: DM - AR	Air Temperature (°C): 15°C
Calibration Completed: (Y/N)	Wind Speed (km/h): 13 km/h
Sensitivity: 31,01 mv/Pa	Wind Direction: SE
Deviation: 0,20 dba	Relative Humidity (%): 60,7%
Time of Calibration: 9:22 AM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 100.6 kPa
Photographs of Surroundings: (Y/N)	Northing: 537978
Check Available Memory on SD Card: (Y/N)	Easting: 6991742
Battery Power Check: (Y/N)	Noise Monitor End Time: 9:17 AM

E 537550 N 6991300

Monitoring Starts

Sample ID: NPOR06A	Cloud Cover: 50 %
Date: 2022-07-17	Height of Clouds: 0-10 000 10 000-25 000 (25 000+)
Operators: DM-AR	Air Temperature (°C): 19,3 °C
Calibration Completed: (Y/N)	Wind Speed (km/h) 20 km/h
Sensitivity: 30.45 mv/PA	Wind Direction: NE
Deviation: -0.03 dba	Relative Humidity (%): 54,8%
Time of Calibration: 16:12PM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 100.5kpa
Photographs of Surroundings: (Y/N)	Northing: 537550
Check Available Memory on SD Card: (Y/N)	Easting: 6991300
Battery Power Check: (Y/N)	Noise Monitor Start Time: 16.23PM

General Site Description

Type of Ground Surface:

Traffic in Area: vehicules travelling on dyno road ≈500 South + local ATV's

Human Activities in Area: Rob brown's cabin ≈690m East

Animals in Area:

Other Noise Sources: "potential noise source"
Ø helicopter sounds as they are grounded.
Boats could be heard from MEL-lake.

Monitoring Ends

Sample ID: NPOR06A	Cloud Cover: 10%
Date: 2022-07-20	Height of Clouds: 0-10 000 10 000-25 000 (25 000+)
Operators: DM-AR	Air Temperature (°C): 13,7 °C
Calibration Completed: (Y/N)	Wind Speed (km/h): 15,2 km/h
Sensitivity: 30,26 mv/Pa	Wind Direction: SE
Deviation: -0,05 dba	Relative Humidity (%): 66,7 %
Time of Calibration: 8:45 AM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 100.6kPa
Photographs of Surroundings: (Y/N)	Northing: 537550
Check Available Memory on SD Card: (Y/N)	Easting: 6991300
Battery Power Check: (Y/N)	Noise Monitor End Time: 8:40 AM

NOISE #2

Monitoring Starts

Sample ID: NPOR08	Cloud Cover: 90%
Date: 2022-07-21	Height of Clouds: Highest 0-10 000 10 000-25 000 (25 000+)
Operators: DM - AT	Air Temperature (°C): 13.4 °C
Calibration Completed: (Y/N)	Wind Speed (km/h): 10.0 km/h
Sensitivity: 30.16 mv/Pa	Wind Direction: SW
Deviation: -0.24 dba	Relative Humidity (%): 65.3
Time of Calibration: 8:57 AM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 100.74 KPa
Photographs of Surroundings: (Y/N)	Northing: 0543706
Check Available Memory on SD Card: (Y/N)	Easting: 6987275
Battery Power Check: (Y/N)	Noise Monitor Start Time: 9:00AM

General Site Description

Type of Ground Surface: tundra

Traffic in Area: Potential local boats, Road (AWAR) is 2.2km Ouest of noise site

Human Activities in Area: NONE

Animals in Area: NONE

Other Noise Sources:
helicopter flights when resuming (helicopter pad 2.3km North of noise site)

Monitoring Ends

Sample ID: NPOR08	Cloud Cover: 10%
Date: 2022-07-24	Height of Clouds: Med 0-10 000 (10 000-25 000) 25 000+
Operators: DM-AT	Air Temperature (°C): 20.8 °C
Calibration Completed: (Y/N)	Wind Speed (km/h): 6.9 km/h
Sensitivity: 30.25 mv/pa	Wind Direction: SW
Deviation: 0.03 dba	Relative Humidity (%): 43.3
Time of Calibration: 9:02	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 101.5 kPa
Photographs of Surroundings: (Y/N)	Northing: 0543706
Check Available Memory on SD Card: (Y/N)	Easting: 6987275
Battery Power Check: (Y/N)	Noise Monitor End Time: 9:00AM

9:00 Stopped

Appendix B: Weather Data and Hourly L_{eq} values

Appx A - Table 1. Weather data recorded from the Meliadine site permanent weather station for noise monitoring dates, and hourly L_{eq} values calculated after primary data filtering. *Values filtered out during secondary filtering are in italics.*

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/17/22	4:00 PM	18.3	17.6	360	68	-			
7/17/22	5:00 PM	18.7	19.3	351	64	-			
7/17/22	6:00 PM	18.5	19.5	338	64	-			
7/17/22	7:00 PM	17.5	19.5	334	69	-			
7/17/22	8:00 PM	16.8	16.1	336	70	-			
7/17/22	9:00 PM	16.7	15.6	336	70	-			
7/17/22	10:00 PM	16.2	14.8	335	72	32.9			
7/17/22	11:00 PM	14.7	14.4	320	80	33.6			
7/18/22	12:00 AM	13.5	14.1	319	85	32.7			
7/18/22	1:00 AM	13.0	13.9	315	87	37.0			
7/18/22	2:00 AM	12.4	14.6	322	85	37.0			
7/18/22	3:00 AM	12.2	15.3	329	84	-			
7/18/22	4:00 AM	11.6	17.8	324	86	-			
7/18/22	5:00 AM	11.1	16.7	333	88	-			
7/18/22	6:00 AM	11.6	17.2	337	88	-			
7/18/22	7:00 AM	11.8	19.8	352	84	-			
7/18/22	8:00 AM	12.8	19.3	351	81	-			
7/18/22	9:00 AM	14.0	20.0	350	73	-			
7/18/22	10:00 AM	14.8	20.9	348	70	-			
7/18/22	11:00 AM	16.4	20.0	9	60	-			
7/18/22	12:00 PM	17.4	18.0	2	50	-			
7/18/22	1:00 PM	18.0	16.2	8	46	-			
7/18/22	2:00 PM	17.9	15.6	344	48	-			
7/18/22	3:00 PM	17.9	15.9	321	47	-			
7/18/22	4:00 PM	18.1	15.4	325	46	-			
7/18/22	5:00 PM	18.4	12.5	332	46	30.8			
7/18/22	6:00 PM	18.0	11.7	344	48	29.1			
7/18/22	7:00 PM	18.0	12.0	315	47	32.0			
7/18/22	8:00 PM	17.6	12.5	311	47	27.2			
7/18/22	9:00 PM	17.0	10.9	310	50	20.8			
7/18/22	10:00 PM	15.4	6.4	305	62	22.1			
7/18/22	11:00 PM	14.1	5.5	296	66	20.4			
7/19/22	12:00 AM	13.3	8.0	274	73	21.4			
7/19/22	1:00 AM	12.6	6.1	287	81	20.3			
7/19/22	2:00 AM	13.1	2.9	282	81	23.1			
7/19/22	3:00 AM	13.0	3.4	315	86	37.0			
7/19/22	4:00 AM	13.0	4.4	266	90	33.6			

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/19/22	5:00 AM	12.8	2.2	51	87	31.1			
7/19/22	6:00 AM	12.7	4.0	195	83	32.7			
7/19/22	7:00 AM	12.2	5.1	259	85	21.5			
7/19/22	8:00 AM	12.7	3.3	63	81	24.8			
7/19/22	9:00 AM	13.3	7.0	41	83	23.6			
7/19/22	10:00 AM	14.3	7.5	52	74	37.0			
7/19/22	11:00 AM	15.4	5.7	48	66	30.9			
7/19/22	12:00 PM	16.9	7.6	117	67	38.7			
7/19/22	1:00 PM	16.7	12.1	137	76	42.5			
7/19/22	2:00 PM	17.1	14.5	134	74	44.2			
7/19/22	3:00 PM	17.3	15.0	142	70	47.0			
7/19/22	4:00 PM	17.0	16.9	145	71	-			
7/19/22	5:00 PM	16.8	14.9	152	72	42.5			
7/19/22	6:00 PM	16.7	11.4	165	72	40.3			
7/19/22	7:00 PM	15.8	10.1	192	75	35.7			
7/19/22	8:00 PM	15.5	8.6	191	76	28.2			
7/19/22	9:00 PM	14.9	6.3	198	77	30.9			
7/19/22	10:00 PM	13.8	5.2	193	82	33.3			
7/19/22	11:00 PM	12.6	5.4	247	88	32.8			
7/20/22	12:00 AM	11.7	2.8	104	94	36.6			
7/20/22	1:00 AM	11.0	4.3	103	96	35.9			
7/20/22	2:00 AM	10.4	3.9	116	100	35.5			
7/20/22	3:00 AM	10.2	9.6	126	90	32.3			
7/20/22	4:00 AM	9.8	7.7	138	89	36.9			
7/20/22	5:00 AM	8.9	9.4	139	97	36.8			
7/20/22	6:00 AM	9.4	9.0	137	96	46.9			
7/20/22	7:00 AM	10.5	12.8	140	90	38.6			
7/20/22	8:00 AM	11.3	12.9	151	85	-			
7/21/22	9:00 AM	12.0	9.0	118	75		-		-
7/21/22	10:00 AM	13.2	10.4	111	70		32.6		31.5
7/21/22	11:00 AM	14.4	9.6	121	60		35.0		28.8
7/21/22	12:00 PM	15.3	11.1	131	52		37.0		32.1
7/21/22	1:00 PM	15.8	12.2	142	54		38.5		30.6
7/21/22	2:00 PM	16.0	12.6	137	53		36.0		31.2
7/21/22	3:00 PM	16.5	12.7	139	49		34.4		31.6
7/21/22	4:00 PM	17.2	13.3	141	47		37.0		33.4
7/21/22	5:00 PM	17.0	12.0	141	47		35.6		30.8
7/21/22	6:00 PM	16.3	12.3	150	50		32.1		31.7
7/21/22	7:00 PM	16.1	10.3	154	52		30.5		31.3

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/21/22	8:00 PM	15.7	10.7	146	55		30.8		35.3
7/21/22	9:00 PM	15.3	8.2	158	57		28.8		32.8
7/21/22	10:00 PM	14.0	6.7	167	65		29.6		30.8
7/21/22	11:00 PM	12.4	4.9	168	73		31.9		28.2
7/22/22	12:00 AM	11.0	7.0	162	79		28.5		25.0
7/22/22	1:00 AM	10.4	6.0	156	85		30.2		33.1
7/22/22	2:00 AM	10.4	7.0	149	82		22.5		25.3
7/22/22	3:00 AM	10.3	7.1	143	83		20.7		27.5
7/22/22	4:00 AM	9.8	4.8	156	83		20.8		30.7
7/22/22	5:00 AM	9.4	2.1	106	88		23.6		29.7
7/22/22	6:00 AM	9.8	2.5	124	86		25.8		30.8
7/22/22	7:00 AM	11.1	4.5	128	80		21.9		30.9
7/22/22	8:00 AM	12.5	4.5	150	72		23.4		24.9
7/22/22	9:00 AM	13.8	6.6	145	63		24.3		31.3
7/22/22	10:00 AM	14.9	7.4	134	56		25.0		29.1
7/22/22	11:00 AM	16.4	8.5	123	51		30.2		30.4
7/22/22	12:00 PM	17.3	7.1	128	47		24.7		33.6
7/22/22	1:00 PM	18.3	6.9	95	44		26.5		36.6
7/22/22	2:00 PM	19.5	5.7	121	40		33.8		37.1
7/22/22	3:00 PM	19.8	7.8	99	38		32.2		37.8
7/22/22	4:00 PM	20.4	5.6	158	39		35.3		35.8
7/22/22	5:00 PM	20.2	9.3	152	43		36.4		32.9
7/22/22	6:00 PM	19.3	10.8	202	46		36.8		30.9
7/22/22	7:00 PM	18.3	9.6	202	49		29.9		30.6
7/22/22	8:00 PM	17.5	8.4	216	49		25.1		33.2
7/22/22	9:00 PM	16.4	7.2	190	48		23.3		34.1
7/22/22	10:00 PM	15.5	5.7	195	49		21.0		34.3
7/22/22	11:00 PM	14.2	7.9	229	58		24.0		33.0
7/23/22	12:00 AM	13.4	7.6	220	64		35.4		28.2
7/23/22	1:00 AM	12.3	7.7	232	70		28.1		28.7
7/23/22	2:00 AM	12.3	3.7	244	68		30.5		30.7
7/23/22	3:00 AM	11.7	3.6	269	77		26.4		24.7
7/23/22	4:00 AM	11.4	6.6	284	77		25.3		33.9
7/23/22	5:00 AM	11.1	5.6	305	91		32.1		36.4
7/23/22	6:00 AM	12.6	5.8	353	93		31.3		37.9
7/23/22	7:00 AM	13.1	5.5	18	93		31.0		37.1
7/23/22	8:00 AM	14.8	7.1	12	85		22.4		34.7
7/23/22	9:00 AM	17.6	8.1	38	68		23.3		34.1
7/23/22	10:00 AM	20.3	8.3	47	46		24.1		31.5
7/23/22	11:00 AM	21.8	9.2	43	35		28.2		29.0

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/23/22	12:00 PM	21.6	5.9	43	35		27.3		42.8
7/23/22	1:00 PM	22.4	9.7	3	35		37.4		33.6
7/23/22	2:00 PM	23.0	15.2	14	34		-		-
7/23/22	3:00 PM	23.0	13.1	30	33		35.3		32.3
7/23/22	4:00 PM	23.4	16.8	28	34		-		-
7/23/22	5:00 PM	21.6	11.8	176	40		29.8		34.4
7/23/22	6:00 PM	21.1	8.1	184	38		26.4		32.0
7/23/22	7:00 PM	21.3	7.1	190	40		28.8		30.9
7/23/22	8:00 PM	18.9	7.5	189	49		26.6		31.5
7/23/22	9:00 PM	17.8	5.8	184	50		26.5		34.5
7/23/22	10:00 PM	17.2	6.3	196	48		30.2		35.3
7/23/22	11:00 PM	15.9	6.4	184	56		29.9		30.5
7/24/22	12:00 AM	14.5	5.9	169	62		27.1		28.7
7/24/22	1:00 AM	13.9	3.0	177	66		27.1		29.6
7/24/22	2:00 AM	13.5	1.2	165	78		23.3		23.8
7/24/22	3:00 AM	12.9	0.6	286	90		20.4		24.9
7/24/22	4:00 AM	12.6	0.7	8	99		26.4		33.5
7/24/22	5:00 AM	12.6	4.2	153	93		28.5		35.1
7/24/22	6:00 AM	13.4	4.0	144	81		26.6		38.8
7/24/22	7:00 AM	14.7	4.5	144	80		23.5		29.4
7/24/22	8:00 AM	16.5	5.5	150	61		26.7		27.2
7/24/22	9:00 AM	18.0	6.5	150	49		-		29.3
7/24/22	10:00 AM	19.0	8.5	136	46				33.9
7/24/22	11:00 AM	20.5	6.2	121	41				36.3
7/24/22	12:00 PM	21.5	7.9	119	38				35.4
7/24/22	1:00 PM	21.0	10.9	206	47				-
7/25/22	9:00 AM	17.9	11.4	89	54	-			
7/25/22	10:00 AM	19.0	13.0	124	49	41.3			
7/25/22	11:00 AM	19.2	11.1	144	49	37.0			
7/25/22	12:00 PM	19.6	9.1	146	46	35.5			
7/25/22	1:00 PM	20.1	8.6	182	44	42.8			
7/25/22	2:00 PM	19.6	12.1	197	43	44.2			
7/25/22	3:00 PM	19.0	12.6	196	41	40.6			
7/25/22	4:00 PM	19.3	10.3	183	39	37.5			
7/25/22	5:00 PM	19.8	8.8	190	38	37.2			
7/25/22	6:00 PM	19.5	9.4	184	38	40.0			
7/25/22	7:00 PM	17.9	11.2	196	47	40.2			
7/25/22	8:00 PM	15.9	10.3	188	52	35.7			
7/25/22	9:00 PM	15.4	10.7	158	55	36.7			

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/25/22	10:00 PM	14.1	10.9	159	67	35.4			
7/25/22	11:00 PM	12.7	5.5	170	78	34.3			
7/26/22	12:00 AM	11.6	6.6	159	85	36.1			
7/26/22	1:00 AM	11.1	9.8	150	88	39.8			
7/26/22	2:00 AM	10.8	6.8	153	93	35.2			
7/26/22	3:00 AM	11.0	8.3	144	89	37.5			
7/26/22	4:00 AM	10.5	6.5	133	92	38.7			
7/26/22	5:00 AM	10.9	5.4	132	92	38.0			
7/26/22	6:00 AM	12.3	9.0	109	84	37.7			
7/26/22	7:00 AM	14.0	11.7	92	74	30.2			
7/26/22	8:00 AM	15.6	13.2	95	66	30.2			
7/26/22	9:00 AM	16.6	13.6	95	58	30.1			
7/26/22	10:00 AM	17.5	13.9	61	57	37.6			
7/26/22	11:00 AM	18.7	17.2	69	48	-			
7/26/22	12:00 PM	19.7	19.7	78	42	-			
7/26/22	1:00 PM	20.5	19.4	81	41	-			
7/26/22	2:00 PM	20.6	17.8	105	39	-			
7/26/22	3:00 PM	20.8	17.5	115	36	-			
7/26/22	4:00 PM	20.9	15.8	115	33	-			
7/26/22	5:00 PM	20.8	15.1	120	31	-			
7/26/22	6:00 PM	20.6	13.5	119	31	31.6			
7/26/22	7:00 PM	20.4	11.3	117	31	29.9			
7/26/22	8:00 PM	19.4	8.7	139	46	32.7			
7/26/22	9:00 PM	17.8	11.5	112	55	33.3			
7/26/22	10:00 PM	15.6	10.2	114	68	31.5			
7/26/22	11:00 PM	14.1	6.2	117	71	37.7			
7/27/22	12:00 AM	13.6	3.2	93	75	37.8			
7/27/22	1:00 AM	13.0	3.7	75	80	34.5			
7/27/22	2:00 AM	12.8	2.6	55	82	36.4			
7/27/22	3:00 AM	12.4	3.8	24	89	40.6			
7/27/22	4:00 AM	11.6	6.6	19	92	41.3			
7/27/22	5:00 AM	11.5	6.5	7	92	38.1			
7/27/22	6:00 AM	12.2	6.9	12	88	32.3			
7/27/22	7:00 AM	13.6	10.1	22	86	27.2			
7/27/22	8:00 AM	15.8	13.5	41	71	24.1			
7/27/22	9:00 AM	17.9	12.7	42	60	27.4			
7/27/22	10:00 AM	19.0	11.1	25	56	30.0			
7/27/22	11:00 AM	19.9	8.5	2	48	35.9			
7/27/22	12:00 PM	20.7	10.4	330	43	38.6			
7/27/22	1:00 PM	21.3	12.8	323	39	39.4			

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/27/22	2:00 PM	22.3	14.1	322	36	36.6			
7/27/22	3:00 PM	23.2	11.4	323	33	35.7			
7/27/22	4:00 PM	24.0	12.4	322	30	37.6			
7/27/22	5:00 PM	24.6	11.2	321	29	39.2			
7/27/22	6:00 PM	24.9	14.7	320	29	37.1			
7/27/22	7:00 PM	24.8	13.3	319	29	24.7			
7/27/22	8:00 PM	24.5	10.0	301	32	29.8			
7/27/22	9:00 PM	22.9	7.1	246	44	25.8			
7/27/22	10:00 PM	20.6	7.3	227	56	22.7			
7/27/22	11:00 PM	20.1	6.5	266	56	19.6			
7/28/22	12:00 AM	18.7	7.3	275	64	20.3			
7/28/22	1:00 AM	18.0	9.3	270	68	22.3			
7/28/22	2:00 AM	16.4	11.6	270	76	27.1			
7/28/22	3:00 AM	15.3	14.8	280	78	31.1			
7/28/22	4:00 AM	15.3	16.1	270	76	-			
7/28/22	5:00 AM	15.1	16.5	268	77	-			
7/28/22	6:00 AM	15.6	16.0	270	77	-			
7/28/22	7:00 AM	16.8	16.0	273	76	-			
7/28/22	8:00 AM	17.4	17.2	298	78	-			
7/28/22	9:00 AM	17.8	17.8	331	80	-			
7/28/22	10:00 AM	19.3	24.5	349	76	-			
7/28/22	11:00 AM	19.9	24.5	353	74	-			
7/29/22	1:00 PM	15.7	30.5	335	65		-		
7/29/22	2:00 PM	15.6	33.1	327	61		-		
7/29/22	3:00 PM	15.5	29.1	328	62		-		
7/29/22	4:00 PM	14.9	30.3	312	70		-		
7/29/22	5:00 PM	14.9	29.7	319	71		-		
7/29/22	6:00 PM	14.4	30.4	315	70		-		
7/29/22	7:00 PM	13.6	26.9	330	74		-		
7/29/22	8:00 PM	13.2	24.8	344	79		-		
7/29/22	9:00 PM	12.9	25.1	347	84		-		
7/29/22	10:00 PM	13.1	29.0	350	83		-		
7/29/22	11:00 PM	13.0	30.3	347	85		-		
7/30/22	12:00 AM	12.9	30.8	354	85		-		
7/30/22	1:00 AM	12.6	33.2	349	85		-		
7/30/22	2:00 AM	12.0	39.1	353	87		-		
7/30/22	3:00 AM	11.1	40.8	348	84		-		
7/30/22	4:00 AM	10.4	41.3	346	83		-		
7/30/22	5:00 AM	9.9	40.9	350	85		-		

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/30/22	6:00 AM	9.7	40.3	348	86		-		
7/30/22	7:00 AM	9.9	40.5	351	84		-		
7/30/22	8:00 AM	10.2	39.7	349	83		-		
7/30/22	9:00 AM	10.7	36.8	354	85		-		
7/30/22	10:00 AM	11.4	35.9	354	84		-		
7/30/22	11:00 AM	11.6	38.1	354	80		-	-	
7/30/22	12:00 PM	12.5	36.5	350	74		-	-	
7/30/22	1:00 PM	12.5	35.6	346	72		-	-	
7/30/22	2:00 PM	12.9	33.2	354	69		-	-	
7/30/22	3:00 PM	13.9	34.0	344	59		-	-	
7/30/22	4:00 PM	14.2	35.1	343	52		-	-	
7/30/22	5:00 PM	14.6	36.7	345	49		-	-	
7/30/22	6:00 PM	13.8	37.7	343	53		-	-	
7/30/22	7:00 PM	12.9	37.4	340	57		-	-	
7/30/22	8:00 PM	12.1	34.0	344	66		-	-	
7/30/22	9:00 PM	12.0	34.2	348	62		-	-	
7/30/22	10:00 PM	11.8	32.0	351	61		-	-	
7/30/22	11:00 PM	11.3	33.7	340	64		-	-	
7/31/22	12:00 AM	10.6	34.7	338	73		-	-	
7/31/22	1:00 AM	10.2	33.8	338	77		-	-	
7/31/22	2:00 AM	10.1	30.7	346	79		-	-	
7/31/22	3:00 AM	9.7	29.2	357	78		-	-	
7/31/22	4:00 AM	9.3	29.2	344	80		-	-	
7/31/22	5:00 AM	9.0	29.6	339	81		-	-	
7/31/22	6:00 AM	9.1	28.0	340	80		-	-	
7/31/22	7:00 AM	8.8	29.6	334	77		-	-	
7/31/22	8:00 AM	9.4	29.1	340	73		-	-	
7/31/22	9:00 AM	9.8	26.8	339	72		-	-	
7/31/22	10:00 AM	9.8	25.8	326	71		-	-	
7/31/22	11:00 AM	9.4	26.8	330	80		-	-	
7/31/22	12:00 PM	9.8	28.5	329	77		-	-	
7/31/22	1:00 PM	9.7	29.2	330	80		-	-	
7/31/22	2:00 PM	10.2	30.4	322	79		-	-	
7/31/22	3:00 PM	10.6	31.8	322	75		-	-	
7/31/22	4:00 PM	10.4	30.5	328	78		-	-	
7/31/22	5:00 PM	11.2	32.4	318	72		-	-	
7/31/22	6:00 PM	10.4	28.8	326	82		-	-	
7/31/22	7:00 PM	11.1	31.4	322	75		-	-	
7/31/22	8:00 PM	10.6	30.0	339	76		-	-	
7/31/22	9:00 PM	9.7	26.6	333	82		-	-	

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
7/31/22	10:00 PM	9.6	29.0	338	80		-	-	
7/31/22	11:00 PM	9.4	30.1	328	78		-	-	
8/01/22	12:00 AM	9.3	31.0	325	75		-	-	
8/01/22	1:00 AM	9.1	32.3	330	75		-	-	
8/01/22	2:00 AM	8.7	33.5	322	77		-	-	
8/01/22	3:00 AM	8.2	33.9	317	84		-	-	
8/01/22	4:00 AM	7.6	33.5	321	92		-	-	
8/01/22	5:00 AM	7.6	32.0	313	97		-	-	
8/01/22	6:00 AM	8.3	32.9	319	96		-	-	
8/01/22	7:00 AM	8.6	35.3	315	93		-	-	
8/01/22	8:00 AM	8.9	38.8	313	86		-	-	
8/01/22	9:00 AM	9.0	38.8	312	84		-	-	
8/01/22	10:00 AM	9.6	37.0	313	82		-	-	
8/01/22	11:00 AM	10.0	38.5	320	82		-	-	
8/01/22	12:00 PM	10.2	38.9	323	82		-	-	
8/01/22	1:00 PM	10.4	37.0	322	82			-	
8/01/22	2:00 PM	10.9	40.1	317	77			-	
8/01/22	3:00 PM	10.4	38.2	315	82			-	
8/01/22	4:00 PM	9.6	35.8	312	89			-	
8/01/22	5:00 PM	9.4	32.9	309	88			-	
8/01/22	6:00 PM	9.4	31.5	305	92			-	
8/01/22	7:00 PM	9.7	30.0	315	90			-	
8/01/22	8:00 PM	9.6	25.2	318	94			-	
8/01/22	9:00 PM	9.6	23.7	325	92			-	
8/01/22	10:00 PM	9.2	22.5	319	96			-	
8/01/22	11:00 PM	9.0	22.5	329	98			-	
8/02/22	12:00 AM	8.8	21.5	320	97			-	
8/02/22	1:00 AM	8.4	22.5	311	96			-	
8/02/22	2:00 AM	8.3	24.5	315	97			-	
8/02/22	3:00 AM	8.0	26.0	312	95			-	
8/02/22	4:00 AM	7.9	23.9	308	98			-	
8/02/22	5:00 AM	7.8	23.4	307	100			-	
8/02/22	6:00 AM	8.3	20.6	320	98			-	
8/02/22	7:00 AM	8.6	22.7	318	96			-	
8/02/22	8:00 AM	9.0	23.9	318	93			-	
8/02/22	9:00 AM	9.4	24.2	322	91			-	
8/02/22	10:00 AM	10.3	24.1	329	83			-	
8/02/22	11:00 AM	10.0	23.2	330	89			-	
8/02/22	12:00 PM	10.4	23.8	323	88			-	
8/02/22	1:00 PM	11.2	23.8	326	86			-	

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/02/22	2:00 PM	11.3	22.9	333	89			-	-
8/02/22	3:00 PM	12.1	20.9	341	82			-	-
8/02/22	4:00 PM	11.3	14.1	36	86			47.0	33.9
8/02/22	5:00 PM	11.6	9.7	332	85			34.5	36.8
8/02/22	6:00 PM	12.9	14.0	22	74			44.3	43.4
8/02/22	7:00 PM	13.2	24.9	42	67			-	-
8/02/22	8:00 PM	12.4	23.4	49	69			-	-
8/02/22	9:00 PM	11.3	19.4	45	79			-	-
8/02/22	10:00 PM	9.6	14.9	41	90			30.1	39.3
8/02/22	11:00 PM	8.6	13.8	47	97			30.9	34.4
8/03/22	12:00 AM	7.6	11.6	81	100			28.6	31.0
8/03/22	1:00 AM	7.4	11.9	99	100			38.3	33.3
8/03/22	2:00 AM	7.7	12.5	85	99			24.9	33.9
8/03/22	3:00 AM	7.6	9.4	65	98			22.3	35.5
8/03/22	4:00 AM	7.3	13.5	55	100			21.8	34.1
8/03/22	5:00 AM	6.9	16.6	43	100			-	-
8/03/22	6:00 AM	7.5	14.7	39	100			31.1	32.4
8/03/22	7:00 AM	8.3	17.0	51	100			-	-
8/03/22	8:00 AM	8.9	17.9	59	99			-	-
8/03/22	9:00 AM	9.3	19.6	61	97			-	-
8/03/22	10:00 AM	10.1	20.0	56	93				-
8/03/22	11:00 AM	11.1	24.5	64	84				-
8/03/22	12:00 PM	10.7	23.2	50	90				-
8/03/22	1:00 PM	10.4	20.6	51	95				-
8/03/22	2:00 PM	10.9	30.3	64	92				-
8/03/22	3:00 PM	11.0	28.6	62	92				-
8/03/22	4:00 PM	11.7	31.8	59	87				-
8/03/22	5:00 PM	11.4	28.6	60	91				-
8/03/22	6:00 PM	10.6	20.3	63	95				-
8/03/22	7:00 PM	10.3	19.8	55	97				-
8/03/22	8:00 PM	10.3	21.2	53	95				-
8/03/22	9:00 PM	10.4	20.6	47	90				-
8/03/22	10:00 PM	9.6	16.1	32	92				-
8/03/22	11:00 PM	9.4	16.8	24	92				-
8/04/22	12:00 AM	9.1	14.4	5	94				38.0
8/04/22	1:00 AM	9.4	20.8	359	92				-
8/04/22	2:00 AM	9.6	23.6	3	92				-
8/04/22	3:00 AM	9.5	22.4	14	93				-
8/04/22	4:00 AM	9.0	22.4	13	94				-
8/04/22	5:00 AM	8.5	22.7	18	97				-

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/04/22	6:00 AM	8.8	22.5	22	95				-
8/04/22	7:00 AM	9.1	23.0	14	94				-
8/04/22	8:00 AM	9.9	25.5	15	89				-
8/04/22	9:00 AM	11.2	27.9	8	82				-
8/04/22	10:00 AM	12.3	29.0	4	79				-
8/04/22	11:00 AM	13.4	31.9	8	70				-
8/04/22	12:00 PM	14.4	34.1	6	65				-
8/04/22	1:00 PM	14.5	32.6	2	66				-
8/04/22	2:00 PM	15.7	34.6	10	56				-
8/04/22	3:00 PM	15.4	29.6	12	56				-
8/04/22	4:00 PM	15.8	25.9	348	56				-
8/04/22	5:00 PM	16.0	30.0	345	53				-
8/04/22	6:00 PM	15.8	30.0	336	54				-
8/04/22	7:00 PM	14.7	29.3	334	63				-
8/04/22	8:00 PM	13.1	27.1	346	74				-
8/04/22	9:00 PM	12.4	24.9	346	78				-
8/04/22	10:00 PM	11.7	20.0	344	79				-
8/04/22	11:00 PM	11.5	18.1	343	81				-
8/05/22	12:00 AM	11.4	17.7	342	85				-
8/05/22	1:00 AM	11.1	16.1	325	87				-
8/05/22	2:00 AM	10.7	13.4	308	92				36.7
8/05/22	3:00 AM	10.6	14.0	301	91				36.3
8/05/22	4:00 AM	10.5	12.8	288	92				29.1
8/05/22	5:00 AM	10.7	13.9	297	92				25.8
8/05/22	6:00 AM	11.0	12.3	333	91				35.5
8/05/22	7:00 AM	11.3	9.5	340	89				33.9
8/05/22	8:00 AM	12.3	9.6	330	83				37.8
8/05/22	9:00 AM	12.3	8.8	314	82				35.6
8/05/22	10:00 AM	13.2	8.6	308	78				30.2
8/05/22	11:00 AM	13.6	10.7	358	76				30.5
8/05/22	12:00 PM	14.1	11.9	356	73				38.4
8/05/22	1:00 PM	14.6	12.0	0	71				31.5
8/05/22	2:00 PM	15.2	11.6	50	67				-
8/13/22	10:00 AM	13.8	24.6	299	75			-	
8/13/22	11:00 AM	14.5	31.3	308	74			-	
8/13/22	12:00 PM	15.1	31.6	330	68			-	
8/13/22	1:00 PM	15.1	32.4	336	63			-	
8/13/22	2:00 PM	15.1	31.0	334	54			-	
8/13/22	3:00 PM	15.1	30.4	340	54			-	

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/13/22	4:00 PM	14.9	29.5	340	53			-	
8/13/22	5:00 PM	15.0	27.1	339	53			-	
8/13/22	6:00 PM	14.8	25.8	343	55			-	
8/13/22	7:00 PM	14.7	21.1	343	56			-	
8/13/22	8:00 PM	14.4	17.1	344	59			-	
8/13/22	9:00 PM	13.6	11.3	325	65			24.6	
8/13/22	10:00 PM	12.2	9.4	285	74			27.7	
8/13/22	11:00 PM	12.4	9.6	250	78			30.2	
8/14/22	12:00 AM	11.4	11.9	260	84			32.9	
8/14/22	1:00 AM	10.9	14.3	260	86			39.7	
8/14/22	2:00 AM	11.2	17.0	271	88			-	
8/14/22	3:00 AM	10.8	17.3	271	88			-	
8/14/22	4:00 AM	11.1	14.1	262	88			33.5	
8/14/22	5:00 AM	11.4	13.9	250	87			30.8	
8/14/22	6:00 AM	11.3	11.9	251	89			27.7	
8/14/22	7:00 AM	11.7	12.3	262	89			40.3	
8/14/22	8:00 AM	13.6	17.6	263	82			-	
8/14/22	9:00 AM	16.5	22.6	288	66			-	
8/14/22	10:00 AM	17.7	20.7	323	64			-	
8/14/22	11:00 AM	19.1	18.6	324	59			-	
8/14/22	12:00 PM	20.6	17.4	344	55			-	
8/14/22	1:00 PM	20.5	15.7	352	54			-	
8/14/22	2:00 PM	20.8	16.9	350	52			-	
8/14/22	3:00 PM	20.9	15.6	3	51			-	
8/14/22	4:00 PM	21.0	13.2	15	52			50.4	
8/14/22	5:00 PM	21.4	11.4	25	48			21.7	
8/14/22	6:00 PM	21.5	10.6	26	46			31.4	
8/14/22	7:00 PM	21.8	6.8	50	45			28.1	
8/14/22	8:00 PM	19.5	6.1	185	57			26.2	
8/14/22	9:00 PM	16.3	7.9	186	67			27.3	
8/14/22	10:00 PM	13.8	7.4	179	76			27.0	
8/14/22	11:00 PM	12.8	8.4	169	78			27.5	
8/15/22	12:00 AM	12.3	9.3	186	83			26.0	
8/15/22	1:00 AM	12.1	7.2	175	87			25.0	
8/15/22	2:00 AM	12.0	7.5	177	89			25.9	
8/15/22	3:00 AM	11.5	7.5	159	91			26.7	
8/15/22	4:00 AM	11.1	8.9	160	94			26.4	
8/15/22	5:00 AM	10.8	8.9	158	96			31.7	
8/15/22	6:00 AM	10.8	6.4	169	97			32.0	
8/15/22	7:00 AM	11.5	6.0	169	94			29.2	

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/15/22	8:00 AM	13.3	4.6	183	87			41.2	
8/15/22	9:00 AM	16.0	3.3	188	76			23.4	
8/15/22	10:00 AM	18.0	7.8	215	70			34.4	
8/15/22	11:00 AM	20.6	10.7	227	62			38.7	
8/15/22	12:00 PM	22.9	13.6	249	49			33.2	
8/15/22	1:00 PM	24.7	15.0	252	43			-	
8/15/22	2:00 PM	26.4	17.9	255	30			-	
8/15/22	3:00 PM	26.8	18.7	249	28			-	
8/15/22	4:00 PM	27.2	19.7	269	28			-	
8/15/22	5:00 PM	27.1	17.9	257	29			-	
8/15/22	6:00 PM	25.7	15.6	224	41			-	
8/15/22	7:00 PM	24.5	13.7	211	46			38.1	
8/15/22	8:00 PM	22.4	13.0	208	53			32.9	
8/15/22	9:00 PM	20.4	12.0	210	62			39.8	
8/15/22	10:00 PM	19.0	12.8	205	66			25.4	
8/15/22	11:00 PM	18.3	13.7	203	68			28.8	
8/16/22	12:00 AM	17.7	13.5	208	73			34.2	
8/16/22	1:00 AM	17.8	12.8	212	78			26.7	
8/16/22	2:00 AM	18.3	4.9	203	79			21.6	
8/16/22	3:00 AM	17.1	4.8	157	85			25.3	
8/16/22	4:00 AM	18.3	5.6	192	75			23.4	
8/16/22	5:00 AM	17.3	6.8	177	79			27.6	
8/16/22	6:00 AM	15.8	7.2	186	86			28.1	
8/16/22	7:00 AM	16.8	11.9	214	77			30.8	
8/16/22	8:00 AM	17.5	12.0	215	73			35.4	
8/16/22	9:00 AM	18.6	11.7	211	71			36.7	
8/16/22	10:00 AM	20.0	11.1	211	67			39.0	
8/16/22	11:00 AM	21.8	11.9	212	62			41.2	
8/16/22	12:00 PM	21.6	10.9	209	63			39.0	
8/16/22	1:00 PM	24.2	14.4	213	54			37.8	
8/16/22	2:00 PM	24.8	12.2	203	50			38.3	
8/16/22	3:00 PM	25.4	10.9	203	50			34.4	
8/16/22	4:00 PM	25.3	11.5	210	53			30.7	
8/16/22	5:00 PM	25.1	12.1	209	55			32.0	
8/16/22	6:00 PM	25.0	8.9	206	58			28.1	
8/16/22	7:00 PM	23.7	8.7	207	63			23.9	
8/16/22	8:00 PM	22.8	9.4	211	65			27.1	
8/16/22	9:00 PM	21.6	9.8	207	70			31.7	
8/16/22	10:00 PM	20.6	12.4	218	74			29.6	
8/16/22	11:00 PM	20.1	13.6	246	82			28.4	

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/17/22	12:00 AM	19.1	14.4	253	89			24.0	
8/17/22	1:00 AM	18.3	12.7	254	91			20.8	
8/17/22	2:00 AM	17.6	11.1	236	92			19.3	
8/17/22	3:00 AM	17.8	11.3	245	88			22.2	
8/17/22	4:00 AM	17.6	5.5	243	88			24.2	
8/17/22	5:00 AM	15.7	3.7	153	97			25.6	
8/17/22	6:00 AM	16.2	7.2	208	95			29.0	
8/17/22	7:00 AM	16.2	7.6	216	95			28.1	
8/17/22	8:00 AM	17.5	5.6	235	90			27.0	
8/17/22	9:00 AM	18.8	5.5	261	88			24.2	
8/17/22	10:00 AM	20.5	5.0	342	80			21.8	
8/17/22	11:00 AM	21.2	7.7	349	74			25.2	
8/17/22	12:00 PM	22.6	13.6	328	69			34.4	
8/17/22	1:00 PM	23.2	20.0	326	67			-	
8/17/22	2:00 PM	23.9	20.4	341	66			-	
8/17/22	3:00 PM	23.4	21.9	12	65			-	
8/17/22	4:00 PM	22.1	23.0	16	69			-	
8/17/22	5:00 PM	20.6	25.7	13	72			-	
8/17/22	6:00 PM	19.5	23.7	33	74			-	
8/17/22	7:00 PM	18.8	19.7	45	76			-	
8/17/22	8:00 PM	17.9	15.2	50	81			-	
8/17/22	9:00 PM	17.2	10.7	63	82			24.8	
8/17/22	10:00 PM	16.7	5.1	24	85			19.9	
8/17/22	11:00 PM	16.5	18.8	337	85			-	
8/18/22	12:00 AM	15.8	22.7	354	84			-	
8/18/22	1:00 AM	15.2	21.0	355	85			-	
8/18/22	2:00 AM	14.9	23.8	355	85			-	
8/18/22	3:00 AM	14.5	23.6	356	88			-	
8/18/22	4:00 AM	14.0	24.3	2	89			-	
8/18/22	5:00 AM	13.5	23.7	1	90			-	
8/26/22	4:00 PM	9.2	5.5	5	63		-		
8/26/22	5:00 PM	9.1	5.3	6	63		43.8		
8/26/22	6:00 PM	9.4	3.6	349	60		39.7		
8/26/22	7:00 PM	9.8	4.1	34	58		39.2		
8/26/22	8:00 PM	9.4	2.3	16	58		32.5		
8/26/22	9:00 PM	8.0	1.6	5	65		39.6		
8/26/22	10:00 PM	6.6	3.4	113	82		36.6		
8/26/22	11:00 PM	5.8	5.4	152	89		39.4		
8/27/22	12:00 AM	5.1	4.1	153	99		38.8		

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/27/22	1:00 AM	6.1	4.8	198	96		37.3		
8/27/22	2:00 AM	5.9	5.3	180	92		32.1		
8/27/22	3:00 AM	5.3	4.1	155	97		44.6		
8/27/22	4:00 AM	5.3	7.3	134	100		49.3		
8/27/22	5:00 AM	5.4	10.9	130	99		49.7		
8/27/22	6:00 AM	5.6	12.5	130	91		51.3		
8/27/22	7:00 AM	6.0	12.7	136	85		51.6		
8/27/22	8:00 AM	6.2	13.9	138	80		44.4		
8/27/22	9:00 AM	6.3	12.7	142	78		51.5		
8/27/22	10:00 AM	6.5	15.1	141	79		-		
8/27/22	11:00 AM	6.3	17.7	136	85		-		
8/27/22	12:00 PM	6.5	20.0	137	85		-		
8/27/22	1:00 PM	6.5	20.2	142	85		-		
8/27/22	2:00 PM	6.7	19.8	135	87		-		
8/27/22	3:00 PM	7.1	20.4	138	84		-		
8/27/22	4:00 PM	7.2	19.9	136	84		-		
8/27/22	5:00 PM	7.5	21.0	135	84		-		
8/27/22	6:00 PM	7.7	22.4	128	88		-		
8/27/22	7:00 PM	7.4	22.6	129	90		-		
8/27/22	8:00 PM	7.4	24.4	126	88		-		
8/27/22	9:00 PM	7.1	24.3	117	90		-		
8/27/22	10:00 PM	6.9	29.5	112	93		-		
8/27/22	11:00 PM	6.8	27.4	109	95		-		
8/28/22	12:00 AM	6.6	28.3	106	96		-		
8/28/22	1:00 AM	6.4	26.1	102	95		-		
8/28/22	2:00 AM	6.1	26.4	102	96		-		
8/28/22	3:00 AM	6.1	25.9	108	95		-		
8/28/22	4:00 AM	6.0	25.3	112	94		-		
8/28/22	5:00 AM	5.9	26.8	112	94		-		
8/28/22	6:00 AM	6.3	28.3	112	92		-		
8/28/22	7:00 AM	6.4	32.4	110	88		-		
8/28/22	8:00 AM	6.4	30.5	112	86		-		
8/28/22	9:00 AM	6.4	29.1	115	89		-		
8/28/22	10:00 AM	7.1	30.5	114	80		-		
8/28/22	11:00 AM	7.6	28.2	116	76		-		
8/28/22	12:00 PM	7.7	27.3	111	76		-		
8/28/22	1:00 PM	7.7	28.1	104	72		-		
8/28/22	2:00 PM	7.7	28.6	101	73		-		
8/28/22	3:00 PM	7.7	28.3	105	77		-		
8/28/22	4:00 PM	8.0	27.0	99	78		-		

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
8/28/22	5:00 PM	8.1	27.0	112	77		-		
8/28/22	6:00 PM	7.8	24.9	115	74		-		
8/28/22	7:00 PM	7.5	24.2	113	77		-		
8/28/22	8:00 PM	7.1	26.5	107	80		-		
8/28/22	9:00 PM	6.8	23.9	120	79		-		
8/28/22	10:00 PM	6.1	24.6	96	92		-		
8/28/22	11:00 PM	6.2	22.8	99	88		-		
8/29/22	12:00 AM	6.3	23.8	108	88		-		
8/29/22	1:00 AM	6.2	21.5	104	91		-		
8/29/22	2:00 AM	5.4	20.0	97	96		-		
8/29/22	3:00 AM	4.8	18.0	94	100		-		
8/29/22	4:00 AM	5.1	18.4	89	98		-		
8/29/22	5:00 AM	6.2	24.8	103	94		-		
8/29/22	6:00 AM	6.6	26.1	106	91		-		
8/29/22	7:00 AM	6.7	26.0	105	90		-		
8/29/22	8:00 AM	6.7	26.6	104	89		-		
8/29/22	9:00 AM	6.9	27.3	97	90		-		
8/29/22	10:00 AM	6.9	30.1	101	89		-		
8/29/22	11:00 AM	7.1	30.5	108	87		-		
8/29/22	12:00 PM	7.2	33.7	112	82		-		
8/29/22	1:00 PM	6.3	33.9	104	88		-		
8/29/22	2:00 PM	5.6	34.0	103	94		-		
8/29/22	3:00 PM	5.8	31.8	99	91		-		
8/29/22	4:00 PM	5.8	27.1	94	95		-		
8/29/22	5:00 PM	5.8	26.9	96	100		-		
8/29/22	6:00 PM	5.8	30.5	95	97		-		
8/29/22	7:00 PM	5.9	29.8	92	90		-		
8/29/22	8:00 PM	5.8	25.2	80	89		-		
8/29/22	9:00 PM	5.8	22.5	80	91		-		
8/29/22	10:00 PM	5.9	25.2	79	95		-		
8/29/22	11:00 PM	6.0	27.2	77	97		-		
9/13/22	4:00 PM	6.7	20.3	313	79				-
9/13/22	5:00 PM	6.9	21.0	314	79				-
9/13/22	6:00 PM	6.6	13.7	338	80				46.5
9/13/22	7:00 PM	6.4	10.9	334	84				44.7
9/13/22	8:00 PM	6.2	17.3	287	86				-
9/13/22	9:00 PM	5.3	12.3	278	92				42.2
9/13/22	10:00 PM	5.7	8.0	273	90				35.4
9/13/22	11:00 PM	5.8	13.5	268	86				39.2

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
9/14/22	12:00 AM	5.5	15.4	267	85				-
9/14/22	1:00 AM	5.5	15.1	267	82				-
9/14/22	2:00 AM	4.8	15.6	265	84				-
9/14/22	3:00 AM	5.1	17.5	264	84				-
9/14/22	4:00 AM	5.1	20.3	255	87				-
9/14/22	5:00 AM	4.8	15.3	246	92				-
9/14/22	6:00 AM	5.0	15.3	241	91				-
9/14/22	7:00 AM	4.8	15.7	249	97				-
9/14/22	8:00 AM	5.0	14.6	258	99				41.3
9/14/22	9:00 AM	5.7	15.7	294	100				-
9/14/22	10:00 AM	6.6	17.5	321	96				-
9/14/22	11:00 AM	7.5	18.8	322	87				-
9/14/22	12:00 PM	8.1	20.3	328	80				-
9/14/22	1:00 PM	7.6	21.5	337	84				-
9/14/22	2:00 PM	7.9	19.8	340	80				-
9/14/22	3:00 PM	7.9	17.8	346	78				-
9/14/22	4:00 PM	8.5	17.0	338	74				-
9/14/22	5:00 PM	8.6	14.3	330	72				43.4
9/14/22	6:00 PM	8.4	10.9	314	75				44.6
9/14/22	7:00 PM	8.5	8.8	290	73				41.6
9/14/22	8:00 PM	7.6	6.2	257	78				43.5
9/14/22	9:00 PM	7.1	4.5	229	78				44.5
9/14/22	10:00 PM	6.3	4.4	197	84				44.0
9/14/22	11:00 PM	5.6	4.9	181	89				22.8
9/15/22	12:00 AM	5.5	6.3	176	93				24.8
9/15/22	1:00 AM	6.0	10.1	196	93				29.6
9/15/22	2:00 AM	6.5	15.1	202	89				-
9/15/22	3:00 AM	6.7	15.6	203	85				-
9/15/22	4:00 AM	6.7	15.9	207	91				-
9/15/22	5:00 AM	6.9	13.9	220	97				41.2
9/15/22	6:00 AM	7.3	15.4	249	97				-
9/15/22	7:00 AM	7.3	18.9	278	99				-
9/15/22	8:00 AM	5.9	25.8	335	97				-
9/15/22	9:00 AM	4.2	25.2	343	99				-
9/15/22	10:00 AM	3.2	23.6	341	100				-
9/15/22	11:00 AM	3.1	24.8	340	95				-
9/15/22	12:00 PM	4.2	24.7	343	87				-
9/15/22	1:00 PM	4.7	25.0	338	83				-
9/15/22	2:00 PM	4.8	23.1	343	82				-
9/15/22	3:00 PM	5.4	22.1	335	79				-

Date and Time		Avg. Air Temp (C)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	Avg. Relative Humidity (%)	1-h Leq (dBA)			
						NPOR 6a	NPOR 8	NPOR 14a	NPOR 17a
9/15/22	4:00 PM	5.9	22.7	330	74				-
9/15/22	5:00 PM	5.7	25.6	328	76				-
9/15/22	6:00 PM	5.7	26.2	324	72				-
9/15/22	7:00 PM	5.2	26.7	331	73				-
9/15/22	8:00 PM	4.8	25.9	332	78				-
9/15/22	9:00 PM	4.3	27.7	325	82				-
9/15/22	10:00 PM	3.7	22.3	310	89				-
9/15/22	11:00 PM	3.8	25.7	317	92				-
9/16/22	12:00 AM	4.2	28.5	336	89				-
9/16/22	1:00 AM	3.9	27.5	347	85				-
9/16/22	2:00 AM	3.5	30.0	345	85				-
9/16/22	3:00 AM	3.1	30.8	345	84				-
9/16/22	4:00 AM	3.0	28.7	352	85				-
9/16/22	5:00 AM	2.8	28.4	351	87				-
9/16/22	6:00 AM	2.1	26.9	357	92				-
9/16/22	7:00 AM	1.7	23.6	1	96				-
9/16/22	8:00 AM	2.2	20.8	351	94				-
9/16/22	9:00 AM	2.6	22.7	352	92				-
9/16/22	10:00 AM	2.9	22.1	354	94				-
9/16/22	11:00 AM	3.7	20.2	345	92				-