

APPENDIX 23 2024 NOISE MONITORING REPORT



AGNICO EAGLE

MELIADINE GOLD MINE

2024 Noise Monitoring Report

In Accordance with NIRB Project Certificate No. 006

Prepared by:
Agnico Eagle Mines Limited – Meliadine Division

MARCH 2025

EXECUTIVE SUMMARY

In accordance with Nunavut Impact Review Board (NIRB) Project Certificate No. 006 (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 Mine. The objective of the noise monitoring program is to measure noise levels at three or four previously determined outdoor monitoring locations over at least two 24 h periods. Results are compared to the mine's Final Environmental Impact Statement (FEIS, Golder 2014) predictions for the 24-h L_{eq} , the L_{eq} -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 valid data, technicians aim to conduct two or more monitoring events for each station, lasting two or more days each. In 2024, Agnico Eagle conducted two or three successful noise surveys for all required stations (NPOR006a, NPOR008, and NPOR017a) plus opportunistic surveys at NPOR014b. 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 2024 is provided in Table 1. For all stations, sufficient valid data was available to calculate a minimum of two 24-h and night-time L_{eq} values for comparison to FEIS predictions, design targets (where applicable), and noise monitoring criteria.

For six of nine noise surveys, calculated L_{eq} values were less than FEIS predictions, night-time design targets (where applicable), and the site's noise monitoring criteria. At station NPOR006a, the measured 24-h L_{eq} slightly exceeded the FEIS prediction in both surveys, and ongoing mine works were audible in sound recordings, along with wind interference. These two surveys were conducted within a 10-d period in mid-September and material hauling to the adjacent plant following receipt of barge shipments (occasional occurrence) is considered to have contributed to the elevated acoustic environment at the time, along with locally elevated winds. In both cases, however, measured 24-h L_{eq} values were less than the site's noise monitoring criterion (45 dBA), so no further actions are planned. At station NPOR008, the 24-h L_{eq} value was elevated in one of three events due to frequent helicopter overflights. Helicopters are used regularly in the region and may not be related to mine operations. Due to their seasonal use and infrequent occurrence, they were also not included in FEIS noise modelling. As a result, surveys dominated by helicopter noise (as in this case) are not considered suitable for comparison to the FEIS prediction and noise monitoring criterion. Two additional surveys were conducted for this location and results did not exceed predictions or monitoring criteria.

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

TABLE OF CONTENTS

Section 1 • Introduction..... 1

Section 2 • Methods 2

2.1. Monitoring Locations..... 2

2.2. Monitoring Dates 5

2.3. Sound Level Meter 5

2.4. Weather Data 6

2.5. Field Notes..... 7

2.6. Data Analysis..... 7

2.6.1. Data Filtering..... 7

2.6.1.1. Primary Filtering..... 7

2.6.1.2. Secondary Filtering..... 7

2.6.2. Noise Monitoring Criteria..... 8

Section 3 • Results..... 9

3.1. NPOR006A..... 9

3.2. NPOR008..... 12

3.3. NPOR014B..... 15

3.4. NPOR017A..... 18

Section 4 • Historical Comparison..... 20

Section 5 • Summary 23

Section 6 • Actions..... 25

Appendix A: Field Notes

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

LIST OF FIGURES

Figure 1. Noise monitoring stations for the Meliadine site. Monitoring was conducted at NPOR006a, NPOR008, NPOR014b, and NPOR017a in 2024.....	4
Figure 2. Noise monitoring location NPOR006a (September 7, 2024).....	10
Figure 3. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR006a during monitoring event 1.....	11
Figure 4. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR006a during monitoring event 2.....	11
Figure 5. Noise monitoring location NPOR008 (July 26, 2024).	13
Figure 6. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR008 during monitoring event 1.....	14
Figure 7. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR008 during monitoring event 2.....	14
Figure 8. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR008 during monitoring event 3.....	15
Figure 9. Noise monitoring location NPOR014b (August 16, 2024).	16
Figure 10. 1-min L_{max} , L_{min} , and L_{eq} values recorded during monitoring event 1 at site NPOR014b.....	17
Figure 11. 1-min L_{max} , L_{min} , and L_{eq} values recorded during monitoring event 2 at site NPOR014b.....	17
Figure 12. Noise monitoring location NPOR017a (July 14, 2024).	18
Figure 13. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR017a during monitoring event 1.....	19
Figure 14. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR017a during monitoring event 2.....	19
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.	20
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. * Elevated L_{eq} occurred due to helicopter fly overs (unsuitable for comparison to FEIS prediction and site noise criteria).	21
Figure 17. Historical noise monitoring results (24-h L_{eq} values) for sites NPOR014 (2016 – 2017), NPOR014a (2021-2023 event 1), and NPOR014b (2023 event 2, 2024). Insufficient valid data was available after filtering in 2018 to calculate the 24-h L_{eq} . Monitoring was not conducted in 2019 or 2020. Limited mine-related activity has occurred in this area.....	21

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. 22

LIST OF TABLES

Table 1. Summary of Meliadine Mine outdoor ambient noise monitoring results in 2024..... iii

Table 2. Noise monitoring objectives, frequency, duration, and locations for the construction and operations phases. 1

Table 3. Noise monitoring locations and conditions for monitoring. 2

Table 4. Noise monitoring dates in 2024, and total duration of the recorded data. 5

Table 5. Professional calibration record for noise monitoring instruments (calibration for each microphone includes the field calibrator). 6

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. 8

Table 7. Measured 24-h L_{eq} values for monitoring location NPOR006a. 10

Table 8. Measured 24-h L_{eq} values for monitoring location NPOR008a. 13

Table 9. Measured 24-h L_{eq} values for monitoring location NPOR014b. 15

Table 10. Measured 24-h L_{eq} values for monitoring location NPOR017a. 18

Table 11. Summary of Meliadine Mine outdoor ambient noise monitoring results in 2024..... 24

SECTION 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 Mine 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 and location NPOR014 has been adjusted twice based on community concerns and access considerations (discussed in Section 2.1).

Table 2. Noise monitoring objectives, frequency, duration, and locations for the construction and operations phases.

Monitoring Objectives	Frequency and Duration of Monitoring	Monitoring Locations
<p>To verify that the noise emissions used in the FEIS noise assessment were reasonable, yet conservative.</p> <p>To verify that the mitigation measures considered integral to the Project are incorporated as planned, and are effective.</p>	Two noise surveys per year per station, for a minimum period of 24 h per survey.	<p>NPOR005 and/or NPOR006 (pre-2020) or NPOR006a (2020+)</p> <p>NPOR008</p> <p>NPOR014 (pre-2020) or NPOR014a (2020-2023) or NPOR014b (2023+) – <i>when activities associated with the Discovery Pit are occurring.</i></p> <p>NPOR017 (pre-2020) or NPOR017a (2020+)</p>

SECTION 2 • METHODS

2.1. Monitoring Locations

In 2024, noise monitoring was conducted at four locations, as required by the Noise Abatement and Monitoring Plan. The monitoring locations are identified in Figure 1 and summarized in Table 3. Descriptions of the surrounding terrain and topography for these stations are provided in the Noise Abatement and Monitoring Plan. Photos of the noise monitoring locations in the current year are provided in Section 3. These monitoring locations will be reviewed and may be adapted throughout the construction and/or operations phases of the Mine, as necessary.

In 2024, no construction or operational activities occurred at the Discovery deposit location. Some exploration activities (drilling and prospecting) took place during the summer of 2024 and noise levels at NPOR014b were opportunistically monitored.

Table 3. Noise monitoring locations and conditions for monitoring.

Location ID	UTM (Zone 15V)	Project Area	Monitoring Conditions	Monitored in 2024?
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.	No
NPOR014b	549673 E 6982043 N	Mine	Adjusted NPOR014 location beginning with the second survey in 2023. This station was moved to facilitate access, which previously was only by helicopter (for NPOR014a).	Yes

Location ID	UTM (Zone 15V)	Project Area	Monitoring Conditions	Monitored in 2024?
NPOR017	544203E 6970537N	AWAR	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	<i>Former alternate to NPOR006 if monitoring at that location was not feasible due to high occupancy rates of the adjacent cabin. No longer required since monitoring began at NPOR006a in 2020.</i>	No
AWAR = All Weather Access Road				

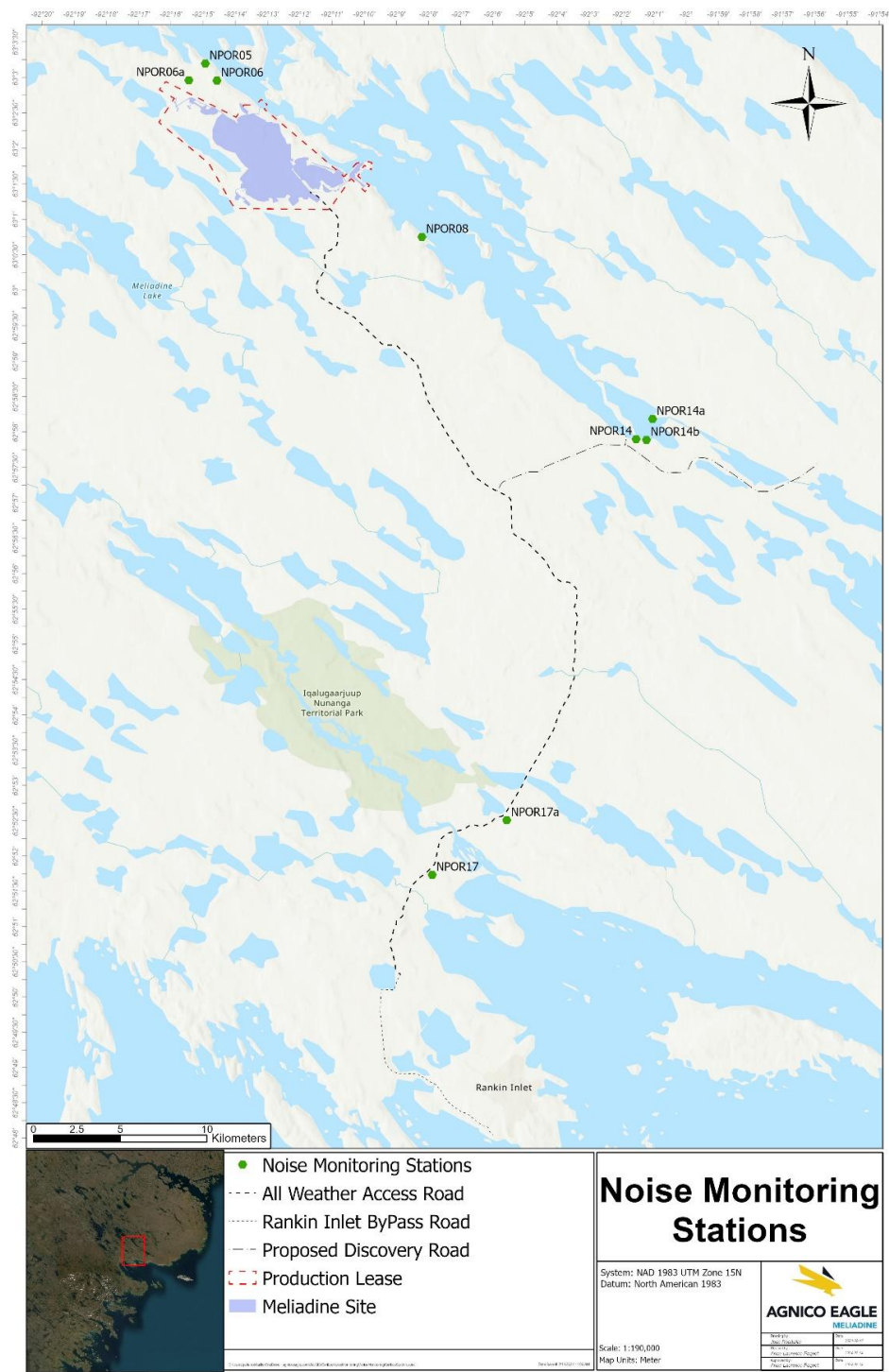


Figure 1. Noise monitoring stations for the Meliadine site. Monitoring was conducted at NPOR006a, NPOR008, NPOR014b, and NPOR017a in 2024.

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 2024, and total duration of the recorded data.

Location	Recording Start	Recording End	Duration (h)
NPOR006a	2024-09-07 11:08	2024-09-08 15:49	29
	2024-09-12 16:36	2024-09-16 1:06	81
NPOR008	2024-07-18 11:11	2024-07-20 11:16	49
	2024-07-26 16:26	2024-07-29 14:07	71
	2024-09-29 11:13	2024-09-30 14:52	28
NPOR014b	2024-08-16 15:40	2024-08-20 7:31	89
	2024-09-12 15:51	2024-09-16 9:53	91
NPOR017a	2024-07-12 17:30	2024-07-14 17:08	49
	2024-09-07 15:18	2024-09-08 15:55	25

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 of the same type 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, so beginning in 2020, the secondary wind screen was only used for some monitoring events. Wind screens improve audible recording quality and reduce wind-induced interference on the microphone, but do not alter ambient noise levels, and both are considered valid methods for the purposes of this report (comparison to monitoring criteria and design targets).

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).

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
2023	02-08-23	02-07-23	02-08-23	02-07-23
2024	02-29-24	02-29-24	11-15-23	11-15-23
*Meter 1 was purchased in 2016.				

2.4. Weather Data

Weather data for the noise monitoring periods was collected using the Mine's permanent weather station. Hourly averages for wind speed, wind direction, temperature, relative humidity, and precipitation were available from this station.

In the case of noise monitoring for complaint situations, the Alberta Energy Regulator (AER) Directive 038 (April 17, 2023) identifies acceptable weather conditions for data collection, since wind and precipitation can affect noise measurements. Based on these guidelines and the intent of the ambient noise monitoring program, recorded noise data was initially filtered to remove measurements when average measured wind speed exceeded 15 km/h (4.17 m/s). This is AER's highest recommended wind speed over an extended period for use in noise monitoring complaint situations and applies to monitors located less than 500 m from noise sources (applicable to stations NPOR006a and NPOR017a). Although AER's 2023 guidance recommends lower wind speed limits at greater distances from noise sources and depending on wind direction, this screening approach is considered appropriate here for general comparison with site noise targets, since high winds dominate in this area (e.g. summertime average of 16 km/h in 2024), and no noise-related complaints were under investigation in 2024. This approach also facilitates comparison with historical values, which were screened in the same manner according to recommendations in the previous version of this guidance document (February 16, 2007).

Average hourly wind speed values were used in this analysis, since filtering based on maximum values has historically resulted in exclusion of nearly the entire noise dataset. 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. Weather data for the monitoring periods (wind speed, wind direction, temperature, relative humidity, precipitation) 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 LAeq 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. Primary 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 in consideration of AER Directive 038 (see Section 2.4). After this initial data filtering, valid hourly L_{eq} values were energy-averaged across calendar days within a monitoring event (usually two - three sequential 24-h periods) and used to calculate average night-time (11pm-7am) and 24 h L_{eq} values for each event. This approach has been taken historically due to the frequency of high-wind conditions, in order to maximize the utility of the available data, and to obtain at least 3 h of coverage from both day- and night-time periods with. All individual hourly L_{eq} values are provided in Appendix B.

2.6.1.2. Secondary Filtering

When calculated average 24-h or night-time L_{eq} values exceeded analysis criteria (see Section 2.6.2, 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 targets (e.g. steady precipitation, 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. Human and animal interference was 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 periods of extended 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 recorded 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.

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 appropriately located sites (NPOR005 and NPOR008). It should be noted that this target was designed to apply at a distance of 1.5 km from the 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/14b	44.7	-	45
NPOR017/17a	43.4	-	45
*Station NPOR005 is an alternate to NPOR006, and was not required in 2024.			

SECTION 3 • RESULTS

Calculated 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

In total three surveys were attempted at station NPOR006a, but the first (initiated August 16) self-terminated after 11 h due to a battery failure, and insufficient night-time data (<3 h) was obtained to calculate L_{eq} values, so results are not reported.

Recorded 1-min L_{eq} values for the two successful monitoring events at NPOR006a are shown in Figures 3 and 4. For event 1 (September 7 - 9), the survey lasted 29 h and 4 h were filtered out due to wind conditions (primary filtering). For event 2 (September 17 - 19), 32 h of monitoring data were available after 35 h were filtered out due to wind conditions (primary filtering) and a further 13 h were filtered out due to recorded precipitation.

Noise sources noted in the field log for this location in 2024 or historically include the possibility for human activities and ATVs from the nearby cabin (~600 m), mine activities (500 m), and animal sounds.

After data was filtered as described above, the calculated 24-h L_{eq} values were 40.8 dBA for event 1, and 42.4 dBA for event 2. These both slightly exceed the FEIS prediction (39.8 dBA) but do not exceed the noise monitoring criterion (45 dBA).

Since the FEIS prediction was exceeded in both events, data files and recordings were reviewed further. The elevated acoustic environment in these surveys appears to have been caused by a combination of locally elevated winds and ongoing mine works in relatively close proximity to the survey location. In both cases, hourly L_{eq} values exceeded FEIS predictions for more than half of the monitoring period (15 of 25 h in event 1, 20 of 34 h in event 2). Background sound levels (represented by 1-h L_{90} values) exceeded the assumed 35 dBA over several hours of each survey, but mine sounds were also audible, so no secondary filtering was performed. Since the surveys occurred within a 10 d period, the possibility for a single construction event to have contributed to the two results was investigated. It was determined that throughout these noise monitoring events, barge shipments had just been received and frequent materials transport along the mine road adjacent to the noise station (< 200 m) were ongoing. Materials transport in and out of the nearby construction laydown area (approx. 400 m) may also have contributed. During both events, the survey location was directly downwind of the mine site throughout the monitoring event, with winds blowing from 130 - 190°. Since measured sound levels remained below the noise monitoring criterion (45 dBA) under optimal conditions for sound propagation towards the noise survey location, no further investigation or changes to onsite noise mitigation are planned at this time.

Table 7. Measured 24-h L_{eq} values for monitoring location NPOR006a.

Monitoring Station	Survey Dates	FEIS Prediction	Measured L_{eq} 24 h
NPOR006a	September 7 - 9	39.8 dBA	40.8 dBA
	September 12 - 16		42.4 dBA

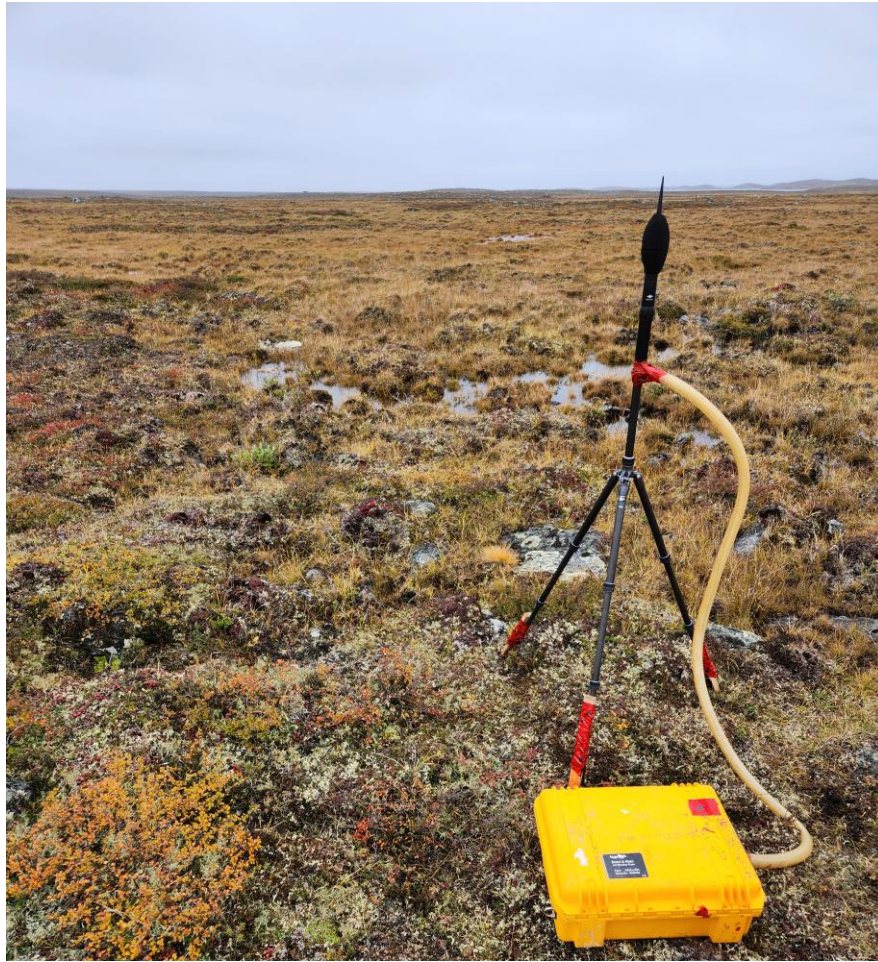


Figure 2. Noise monitoring location NPOR006a (September 7, 2024).

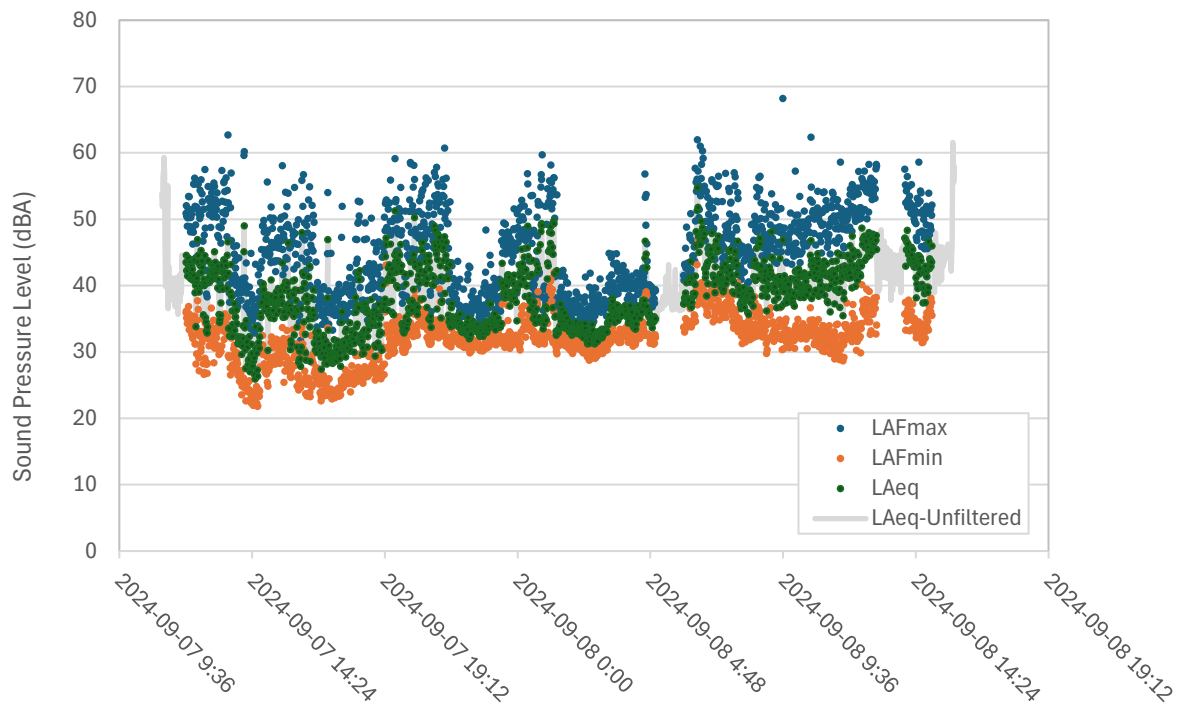


Figure 3. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR006a during monitoring event 1.

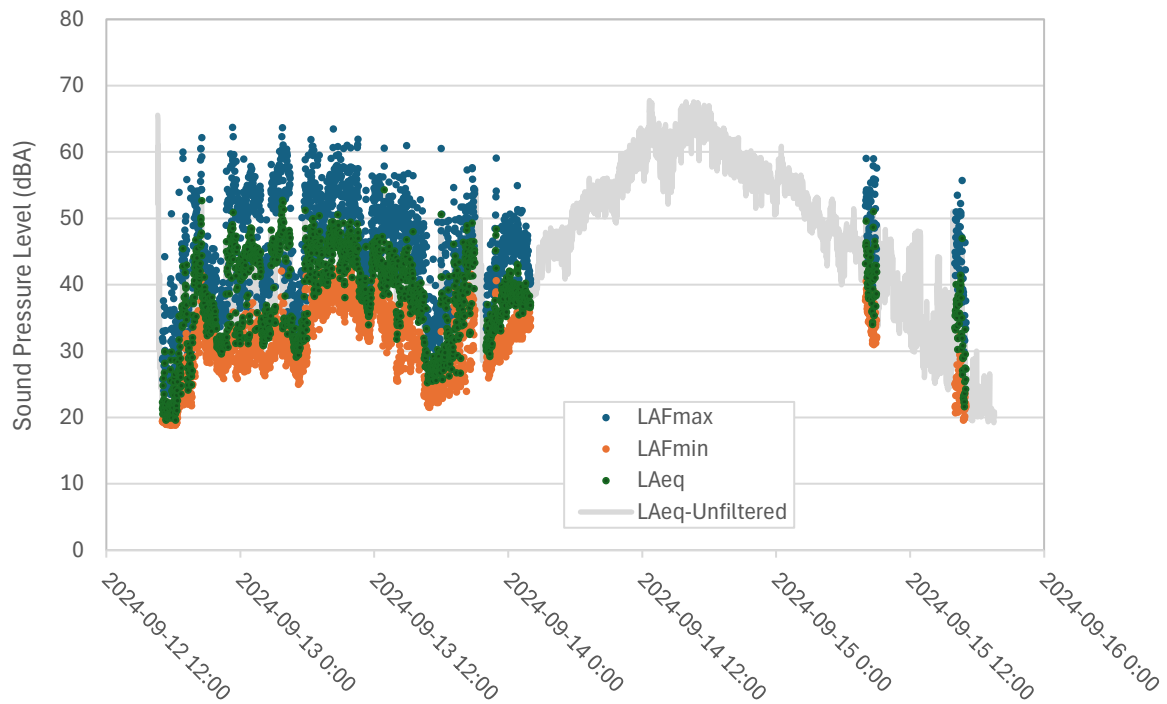


Figure 4. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR006a during monitoring event 2.

3.2. NPOR008

In total four surveys were attempted at station NPOR008a, but the first (initiated July 15) self-terminated after 5 h due to a battery failure, and insufficient night-time data (<3 h) was obtained to calculate L_{eq} values, so results are not reported.

Recorded 1-min L_{eq} values for the three successful monitoring events at NPOR008 are shown in Figures 6, 7, and 8. For monitoring event 1 (July 18 - 20), 49 h of monitoring were conducted, and 45 h of valid data were available after primary filtering. After review of the data and secondary filtering on the basis of recorded precipitation (as shown in Appendix B), 44 hours of valid data remained.

For monitoring event 2 (July 26 - 29), the noise survey lasted 71 h, and 53 h of valid data were available after primary filtering. No secondary filtering was performed, but data files and sound recordings were reviewed further since the FEIS prediction was exceeded, as discussed below.

For monitoring event 3 (September 29 - 30), the survey lasted 28 h, and 19 h of valid data remaining after primary filtering. After review of the data and secondary filtering on the basis of apparent localized wind interference, resulting in background noise levels (L_{90}) in excess of 35 dBA (as shown in Appendix B) without audible mine-related noise, 12 hours of valid data remained.

Possible noise sources noted in the field log at this location are generally limited to wildlife, potential for local boats, and helicopters. Over the years, helicopters have regularly been recorded in noise surveys for this location (Figure 16), since it is near the exploration camp helipad and flight corridors.

The final 24-h L_{eq} and night-time L_{eq} values for events 1, 2, and 3 are shown in Table 8. For event 2 (July 26 – 29), the calculated 24 h L_{eq} (46.9 dBA) exceeded the FEIS prediction of 41.7 dBA, and the noise monitoring criterion of 45 dBA. Based on review the monitoring data and sound recordings, the elevated acoustic environment during this survey was caused by helicopter fly-overs. Throughout this event, sharp peaks in 1-min L_{eq} values occurred with a very high frequency (Figure 7) and corresponded to audible helicopters in sound recordings. In particular, near-constant helicopter sounds were audible during the morning hours of July 28 (9 am – 1 pm). Since helicopters for operational purposes are an infrequent, seasonal occurrence, they were not included in FEIS noise models. Helicopters may also be used locally for exploration purposes, by Agnico Eagle or other contractors. Thus, survey data dominated by helicopter noise, as in this case, is not considered suitable for comparison to FEIS predictions or site noise criteria. During the July 18 – 20 survey, helicopter overflights also occurred regularly, with up to six helicopter-related sound peaks during some hours of the event. This resulted in an inflated 24-h L_{eq} , but the FEIS prediction was not exceeded.

The night-time L_{eq} values for all events (Table 8) were less than the design target of 40 dBA.

Table 8. Measured 24-h Leq values for monitoring location NPOR008a.

Monitoring Station	Survey Dates	FEIS Prediction (24-h)	Measured Leq 24 h	Design Target (night-time)	Measured Leq-night-time
NPOR008a	July 18 - 20	41.7 dBA	41.7 dBA	40 dBA	38.2 dBA
	July 26 - 29		(46.9 dBA)*		32.5 dBA
	September 29 - 30		32.6 dBA		31.2 dBA
*Dominated by helicopter fly-overs; not suitable for comparison to FEIS prediction.					

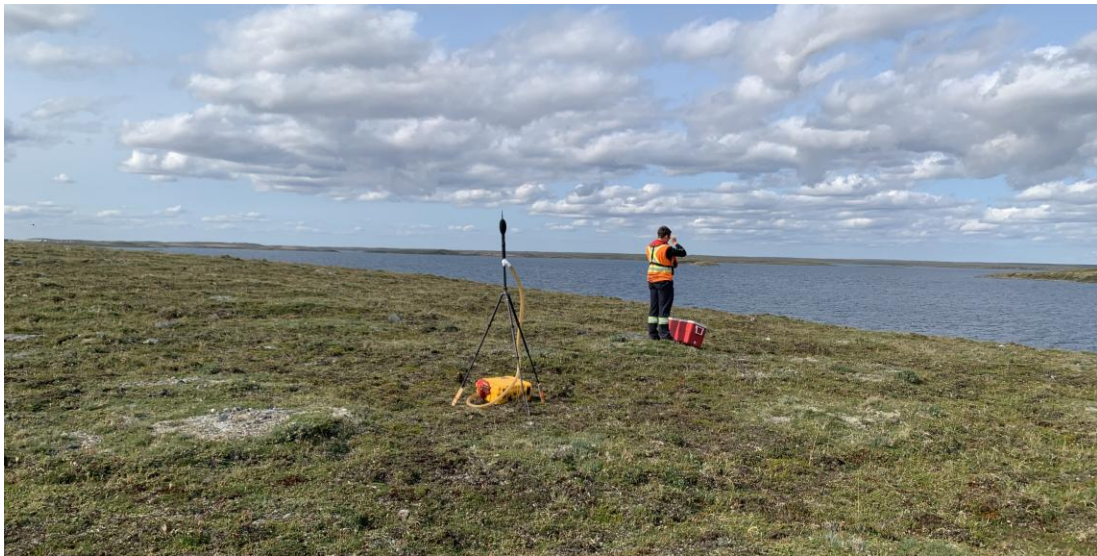


Figure 5. Noise monitoring location NPOR008 (July 26, 2024).

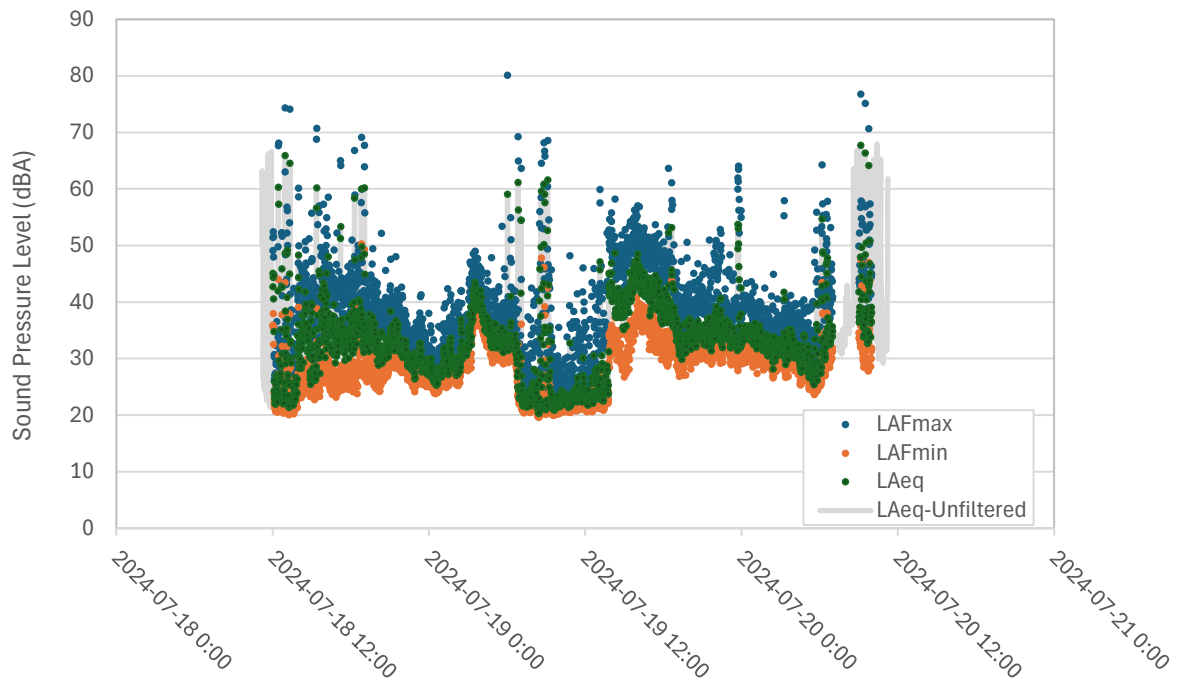


Figure 6. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR008 during monitoring event 1.

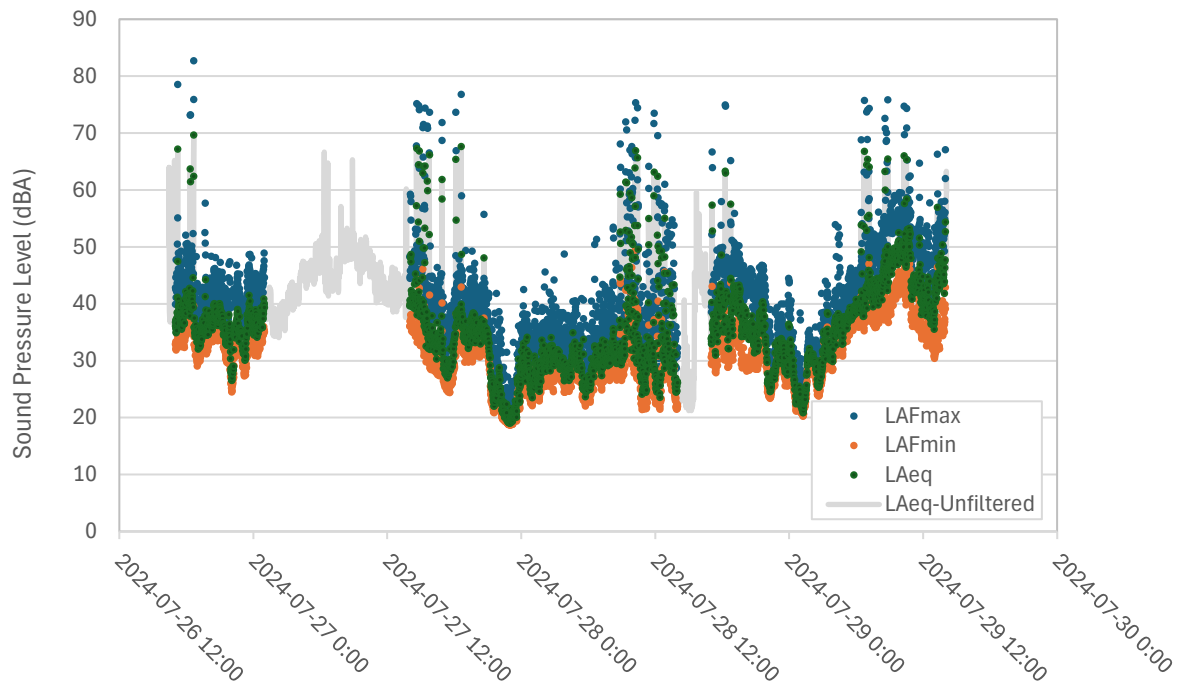


Figure 7. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR008 during monitoring event 2.

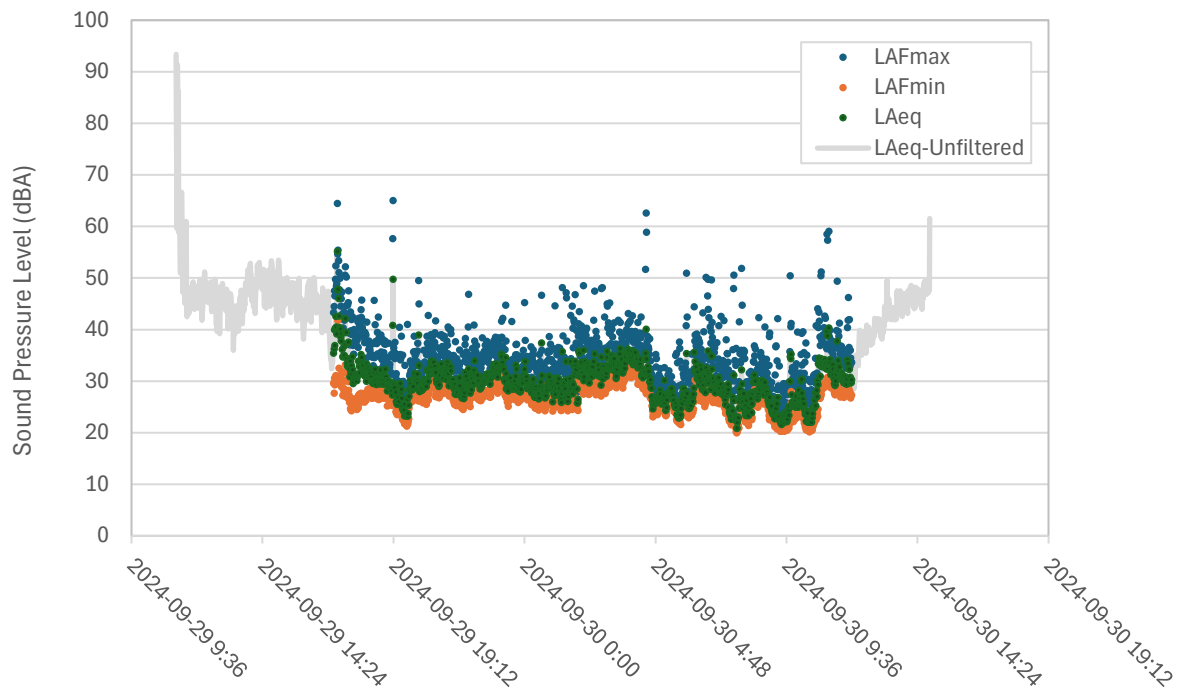


Figure 8. 1-min L_{max} , L_{min} , and L_{eq} values recorded at site NPOR008 during monitoring event 3.

3.3. NPOR014B

In 2024, no construction or operational activity occurred in the Discovery area, but noise monitoring was conducted opportunistically at station NPOR014b.

Two monitoring events were successfully conducted, and recorded 1-min L_{eq} values are shown in Figures 10 and 11. For event 1 (August 16 - 20), 89 h of monitoring were conducted, and 62 h of valid data were available after primary filtering. For event 2 (September 12 - 16), 91 h of monitoring were conducted, and 48 h of valid data were available after primary filtering. No secondary filtering was required for either survey.

Noise sources noted in the field log for this location in 2024 include potential for helicopter traffic, and the possibility for human activities at the nearby cabin.

Measured 24-h L_{eq} values for events 1 and 2 were 34.1 dBA and 37.1 dBA which are below the FEIS prediction (44.7 dBA) (Table 9) and noise monitoring criterion (45 dBA).

Table 9. Measured 24-h L_{eq} values for monitoring location NPOR014b.

Monitoring Station	Survey Dates	FEIS Prediction	Measured L_{eq} 24 h
NPOR014b	August 16 - 20	44.7 dBA	34.1 dBA
	September 12 - 16		37.1 dBA



Figure 9. Noise monitoring location NPOR014b (August 16, 2024).

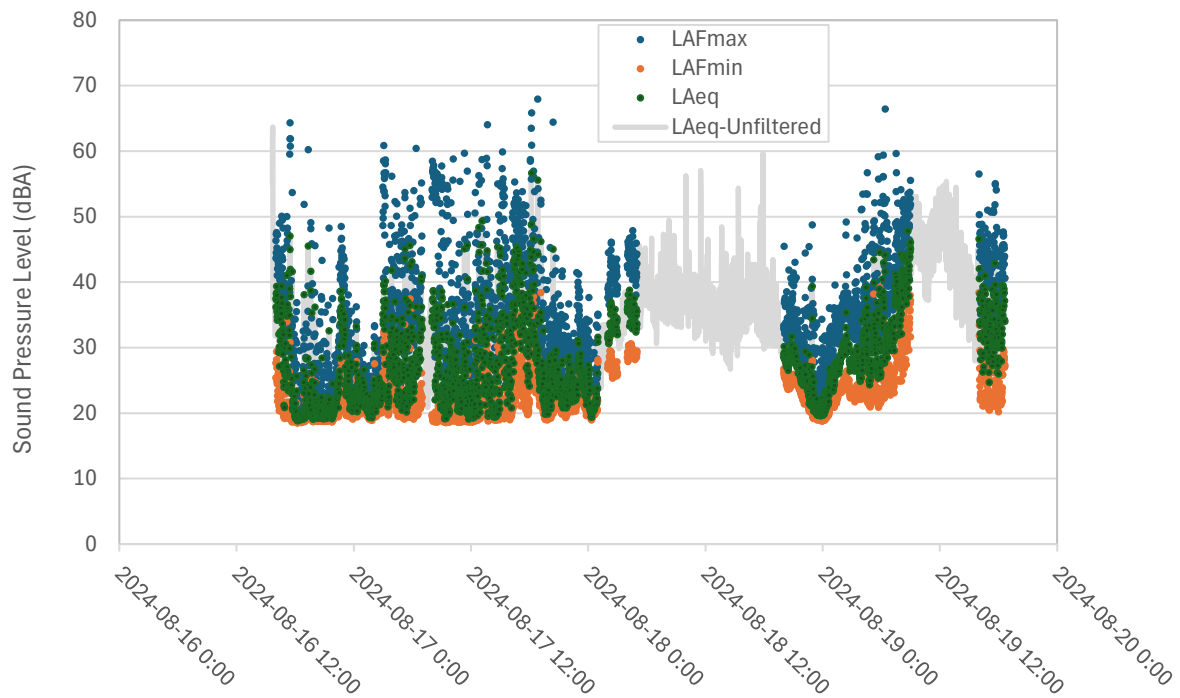


Figure 10. 1-min L_{\max} , L_{\min} , and L_{eq} values recorded during monitoring event 1 at site NPOR014b.

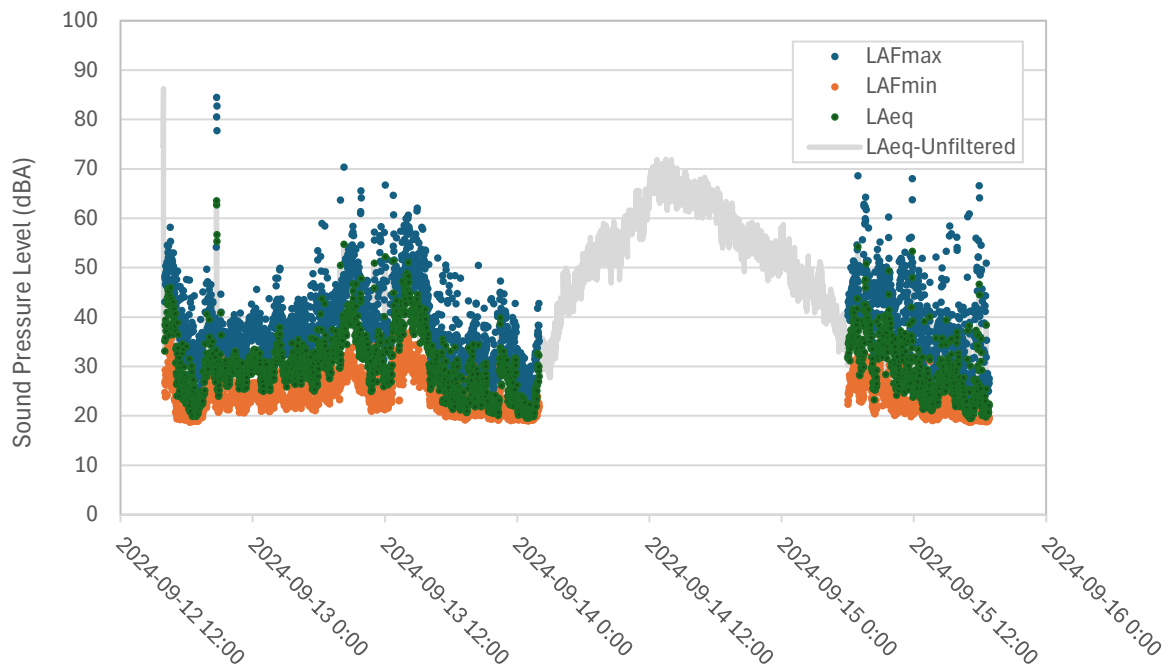


Figure 11. 1-min L_{\max} , L_{\min} , and L_{eq} values recorded during monitoring event 2 at site NPOR014b.

3.4. NPOR017A

In total three surveys were attempted at station NPOR017a, but the third (initiated September 29) self-terminated after 12 h due to a battery failure, and insufficient day-time data (<3 h) was obtained to calculate the 24-h L_{eq} value, so results are not reported.

For the successfully completed monitoring events, 1-min L_{eq} values are shown in Figures 13 and 14. For event 1 (July 12 - 14), 49 h of monitoring were conducted and 47 h of valid data were available after primary filtering. For event 2 (September 7 - 8), 25 h of monitoring were conducted, and 21 h of valid data were available after primary filtering. Secondary filtering was not required.

This station is located 150 m from the AWAR, which is the dominant mine-related noise source. Noise sources noted in the field log include AWAR traffic and birds.

The measured 24-h L_{eq} value for events 1 and 2 were 39.1 and 40.1 dBA respectively (Table 10). These values do not exceed the FEIS prediction of 43.4 dBA, or the noise monitoring criterion (45 dBA).

Table 10. Measured 24-h L_{eq} values for monitoring location NPOR017a.

Monitoring Station	Survey Dates	FEIS Prediction	Measured L_{eq} 24 h
NPOR017a	July 12 - 14	43.4 dBA	39.1 dBA
	September 7 - 8		40.1 dBA



Figure 12. Noise monitoring location NPOR017a (July 14, 2024).

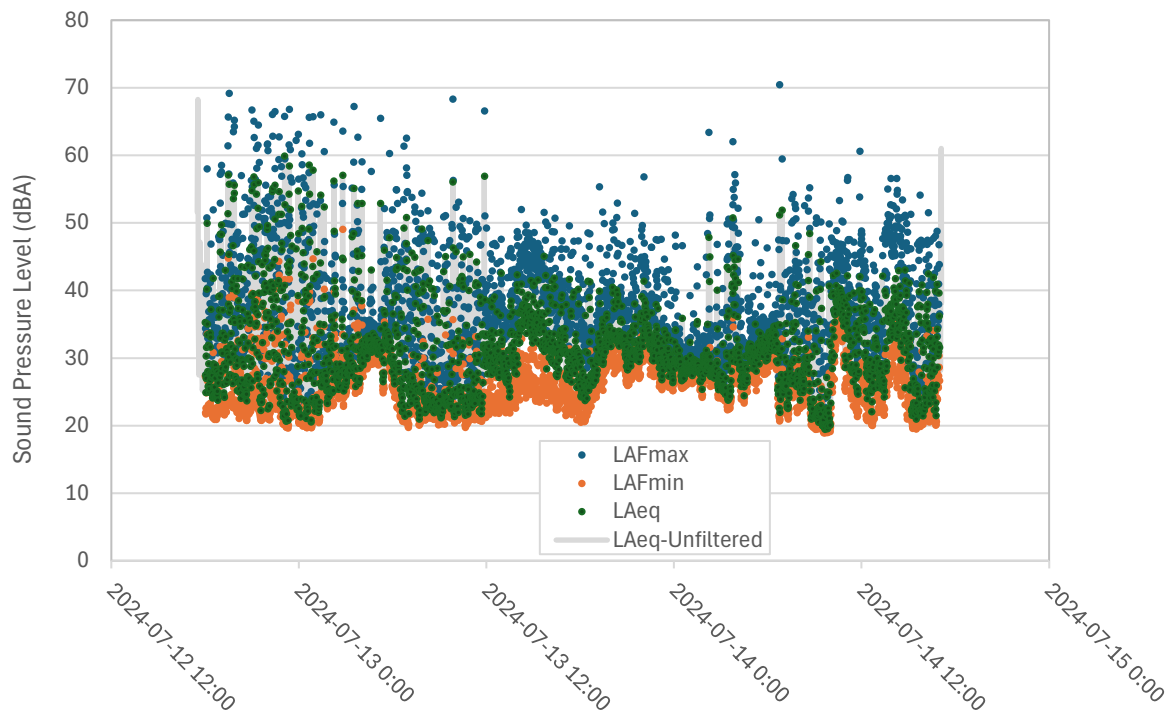


Figure 13. 1-min L_{\max} , L_{\min} , and L_{eq} values recorded at site NPOR017a during monitoring event 1.

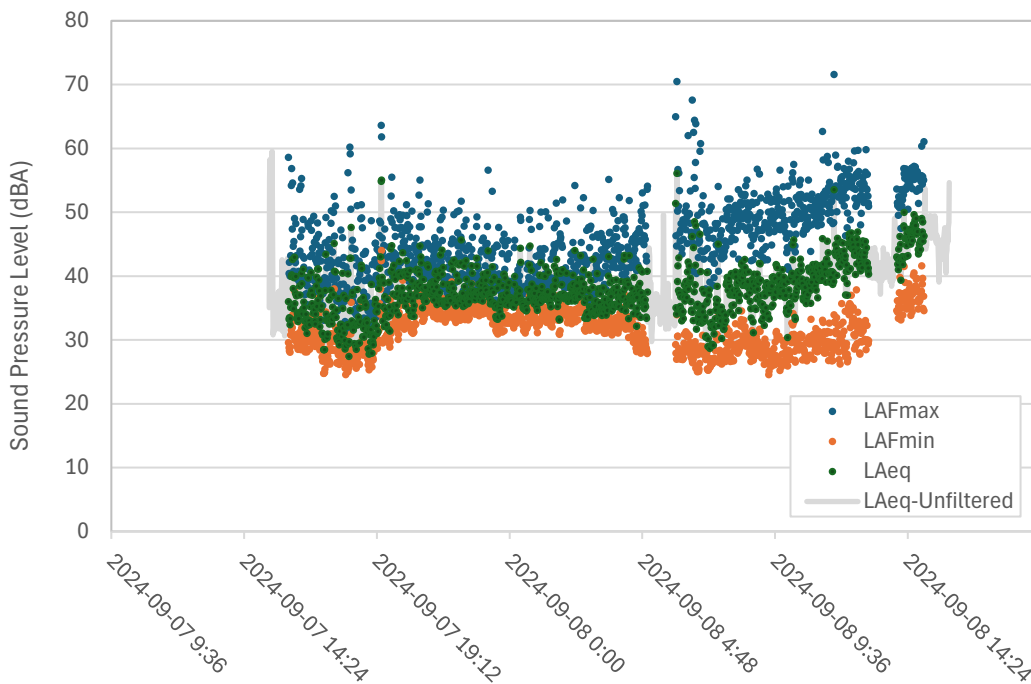


Figure 14. 1-min L_{\max} , L_{\min} , and L_{eq} values recorded at site NPOR017a during monitoring event 2.

SECTION 4 • HISTORICAL COMPARISON

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

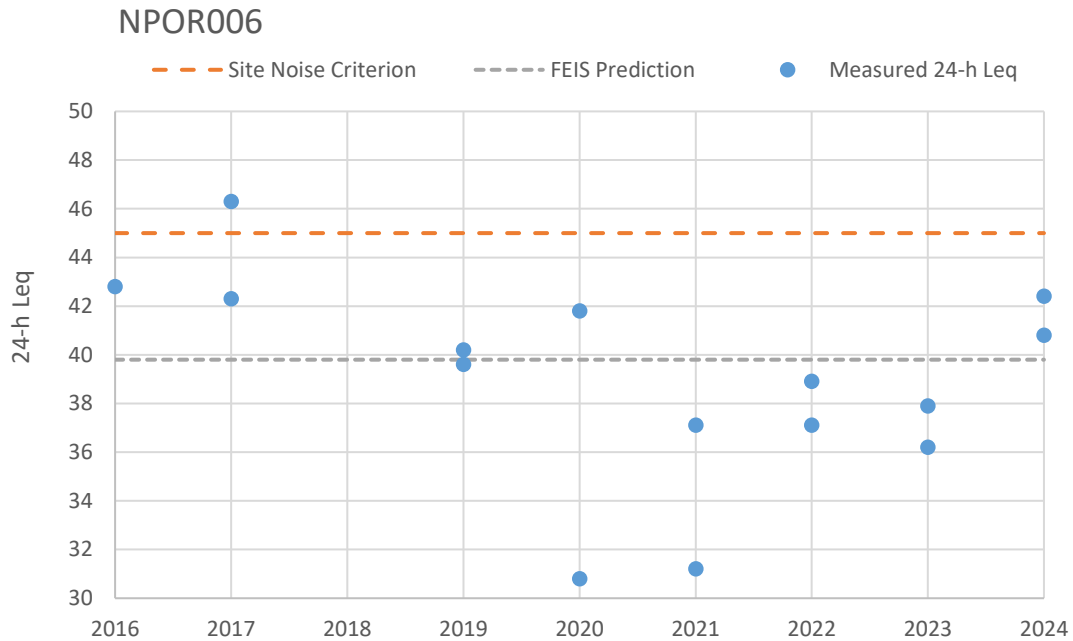


Figure 15. Historical noise monitoring results (24-h L_{eq} values) for site NPOR006 (2016 – 2019) and NPOR006a (2020+). In 2016 and 2017, ongoing works at the adjacent cabin may have contributed to an elevated background acoustic environment but sound recording were not available at that time to assist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

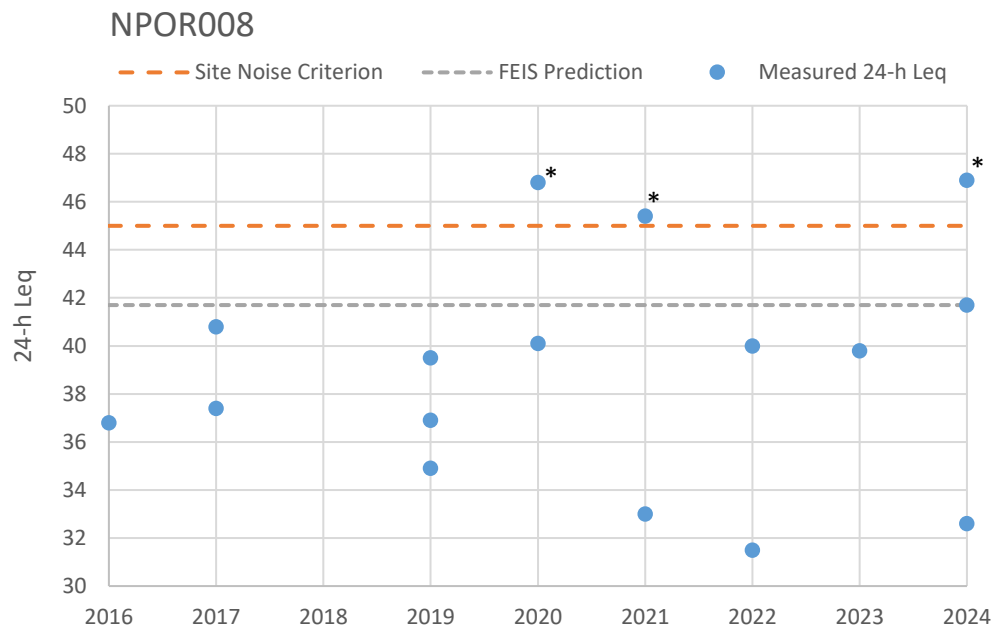


Figure 16. Historical noise monitoring results (24-h L_{eq} values) for site NPOR008. Insufficient valid data was available in 2018 to calculate L_{eq} values. * Elevated L_{eq} occurred due to helicopter fly overs (unsuitable for comparison to FEIS prediction and site noise criteria).

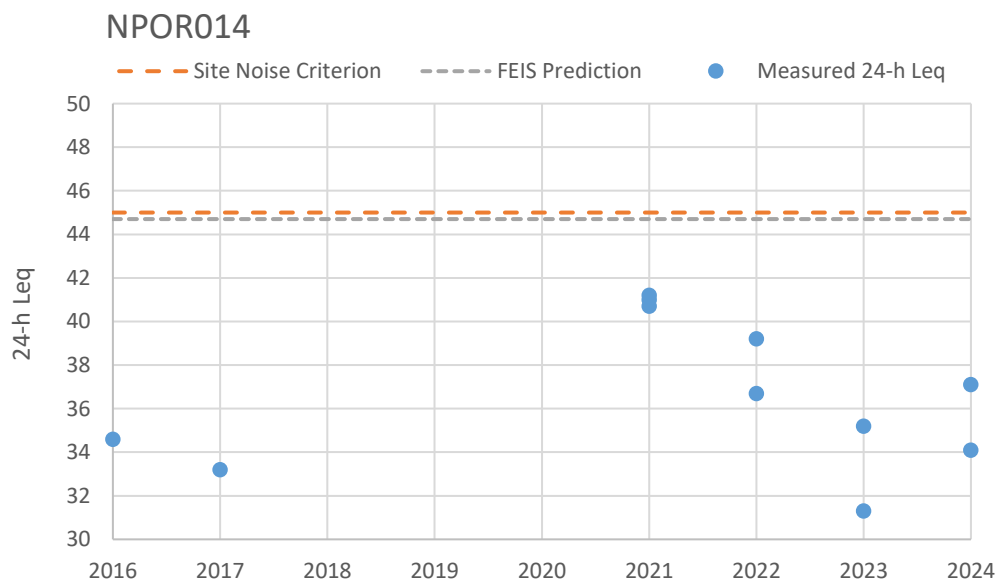


Figure 17. Historical noise monitoring results (24-h L_{eq} values) for sites NPOR014 (2016 – 2017), NPOR014a (2021-2023 event 1), and NPOR014b (2023 event 2, 2024). Insufficient valid data was available after filtering in 2018 to calculate the 24-h L_{eq} . Monitoring was not conducted in 2019 or 2020. Limited mine-related activity has occurred in this area.

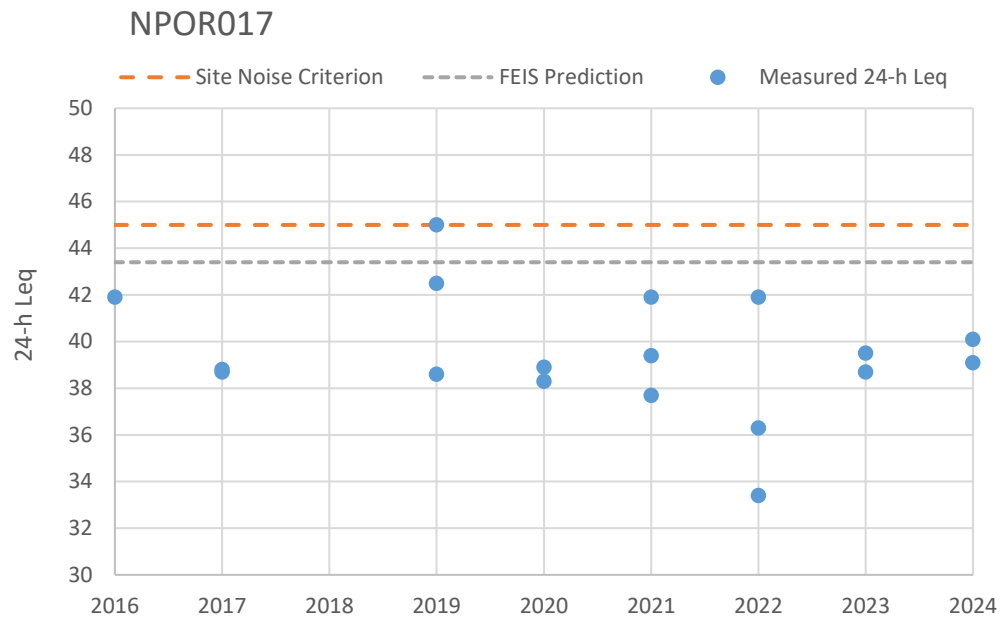


Figure 18. Historical noise monitoring results (24-h L_{eq} values) for site NPOR017 (2016 – 2019) and NPOR017a (2020+). Insufficient valid data was available in 2018 to calculate L_{eq} values.

SECTION 5 • SUMMARY

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 2024, Agnico Eagle conducted two or three successful rounds of monitoring for all required stations (NPOR006a, NPOR008, and NPOR017a) plus opportunistic monitoring at NPOR014b. Monitoring at NPOR014a is not yet required because construction or operational activities related to the Discovery deposit are not ongoing.

A summary of the noise monitoring results for 2024 is provided in Table 11. For all stations, sufficient valid data was available after filtering to calculate a minimum of two 24-h and night-time L_{eq} values for comparison to FEIS predictions and noise monitoring criteria.

For six of nine noise surveys, 24-h L_{eq} values were less than FEIS predictions, night-time design targets (where applicable), and the site's noise monitoring criteria. At NPOR006a, two surveys were conducted within a 10-d period in September after an earlier summer survey was unsuccessful. For both surveys, the 24-h L_{eq} exceeded the FEIS prediction, and ongoing mine works were audible in sound recordings, along with wind interference. Investigations indicated that intensive materials transport in this area following receipt of a barge shipment (occasional occurrence) was likely the source of audible traffic. Elevated noise levels were further influenced by a direct wind from this source to the survey location. However, since results of both surveys were less than the noise monitoring criterion (45 dBA), even during this period of high activity and optimal wind conditions for sound propagation, no further actions are planned beyond ongoing monitoring. At station NPOR008, the 24-h L_{eq} value was elevated in one of three events due to frequent helicopter overflights. Helicopters are used regularly in the region and may not be related to mine operations. Because of their seasonal use and infrequent occurrence, helicopters were also not included in FEIS noise modelling. While helicopter interference in noise surveys may be filtered out on that basis, the high frequency of fly-overs during this monitoring event did not support that data treatment. This value is therefore not considered suitable for comparison to the FEIS prediction and noise monitoring criterion. Two additional surveys were conducted for this location, and results did not exceed FEIS predictions.

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

Table 11. Summary of Meliadine Mine outdoor ambient noise monitoring results in 2024.

Location	Recording Start	Recording End	Noise Monitoring Criterion <i>L</i> _{eq(24 h)} (dBA)	FEIS Prediction <i>L</i> _{eq(24 h)} (dBA)	Measured L _{eq(24 h)} (dBA)	Design Target <i>L</i> _{eq (nighttime)} (dBA)	Measured L _{eq (nighttime)} (dBA)
NPOR006a	2024-09-07 11:08	2024-09-08 15:49	45	39.8	40.8	-	40.8
	2024-09-12 16:36	2024-09-16 1:06			42.4		43.1
NPOR008	2024-07-18 11:11	2024-07-20 11:16	45	41.7	41.7	40	38.2
	2024-07-26 16:26	2024-07-29 14:07			(46.9)*		32.5
	2024-09-29 11:13	2024-09-30 14:52			32.6		31.2
NPOR014b	2024-08-16 15:40	2024-08-20 7:31	45	44.7	34.1	-	32.2
	2024-09-12 15:51	2024-09-16 9:53			37.1		32.2
NPOR017a	2024-07-12 17:30	2024-07-14 17:08	45	43.4	39.1	-	40.3
	2024-09-07 15:18	2024-09-08 15:55			40.1		38.9
"- " = Not applicable							
* <i>L</i> _{eq} elevated due to frequent helicopter flyovers; value is not suitable for comparison to monitoring criteria or FEIS predictions.							

SECTION 6 • ACTIONS

No specific supplemental actions related to outdoor ambient noise mitigation or monitoring were planned for 2024, and similarly none are planned for 2025.

Monitoring will continue to be conducted at NPOR006a, NPOR008, and NPOR017a. 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 2025, therefore monitoring will again be conducted opportunistically at NPOR014b, as feasible.

APPENDIX A: FIELD NOTES

Monitoring Starts	
Sample ID: NPOROGA	Cloud Cover: 100%
Date: 2024-09-07	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: ALB-MW	Air Temperature (°C): 8.5
Calibration Completed: (Y/N)	Wind Speed (km/h): 16.9 avg
Sensitivity: 30.34 mV/Pa	Wind Direction: N S
Deviation: 0.06 dB	Relative Humidity (%): 82.3
Time of Calibration: 11:07:10	Precipitation: <u>None</u> Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 100.7
Photographs of Surroundings: (Y/N)	Northing: \
Check Available Memory on SD Card: (Y/N)	Easting: \
Battery Power Check: (Y/N)	Noise Monitor Start Time: 11:08:59
General Site Description	
Type of Ground Surface:	Tundra : Moss and rocks
Traffic in Area:	None
Human Activities in Area:	Couple cabins 300m South
Animals in Area:	none, 500m away some geese
Other Noise Sources:	We could hear the mine
Monitoring Ends	
Sample ID: NPOROGA	Cloud Cover: 100%
Date: 2024-09-08	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: ALB-MM	Air Temperature (°C): 7.8
Calibration Completed: post-cal (Y/N)	Wind Speed (km/h): 20.2 avg
Sensitivity: 30.12 mV/Pa	Wind Direction:
Deviation: -0.06 dB	Relative Humidity (%): 73.7
Time of Calibration: 15:51:11	Precipitation: None <u>Drizzle</u> Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 101.1
Photographs of Surroundings: (Y/N)	Northing: \
Check Available Memory on SD Card: (Y/N)	Easting: \
Battery Power Check: (Y/N)	Noise Monitor End Time: 15:47:52

Monitoring Starts	
Sample ID: NPOR06A	Cloud Cover: 0% 20%
Date: Sept 12, 2024	Height of Clouds: 0-10 000 10 000-25 000 <u>25 000+</u>
Operators: NS/SK	Air Temperature (°C): 14.7
Calibration Completed: (Y/N)	Wind Speed (km/h): 7.5
Sensitivity: 30.08 mV/Pa	Wind Direction: SSE
Deviation: -0.01 dB	Relative Humidity (%): 48.9
Time of Calibration: 16:22	Precipitation: <u>None</u> Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 63°02'57.2"
Check Available Memory on SD Card: (Y/N)	Easting: W 092°15'25.4"
Battery Power Check: (Y/N)	Noise Monitor Start Time: 4:35
General Site Description	
Type of Ground Surface: Tundra	
Traffic in Area: None	
Human Activities in Area: None	
Animals in Area: Birds	
Other Noise Sources: Wind	
Monitoring Ends	
Sample ID: NPOR06A	Cloud Cover: 100%
Date: 2024-09-16	Height of Clouds: <u>0-10 000</u> 10 000-25 000 25 000+
Operators: NS in lab.	Air Temperature (°C): 12
Calibration Completed: (Y/N)	Wind Speed (km/h): 10.2 km/h
Sensitivity: 30.05 mV/Pa	Wind Direction: 270 NW
Deviation: -0.01 dB	Relative Humidity (%): 76%
Time of Calibration: 11:00AM lab (2024-09-17)	Precipitation: None <u>Drizzle</u> Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 63°02'57.2"
Check Available Memory on SD Card: (Y/N)	Easting: 092°15'25.4"
Battery Power Check: dead (Y/N)	Noise Monitor End Time: 16:30 PM

Battery dead upon arrival

Monitoring Starts	
Sample ID: NPOR08	Cloud Cover: 30%
Date: 2024-07-18	Height of Clouds: 0-10 000 10 000-25 000 <u>25 000+</u>
Operators: DM-SG	Air Temperature (°C): 17.0°C
Calibration Completed: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Wind Speed (km/h): 10.9 km/h
Sensitivity: 29.42 mv/Pa	Wind Direction: 135°
Deviation: 0.07	Relative Humidity (%): 48.7
Time of Calibration: 11:02	Precipitation: <input checked="" type="radio"/> None <input type="radio"/> Drizzle <input type="radio"/> Rain
Photographs of Set up: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Barometric Pressure (kPa): 101.47 kPa
Photographs of Surroundings: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Northing: 543707
Check Available Memory on SD Card: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Easting: 6987279
Battery Power Check: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Noise Monitor Start Time: 11:10
General Site Description	
Type of Ground Surface: tundra	
Traffic in Area: Boats & helicopter traffic	
Human Activities in Area: none, except noise monitor operator and cabins 1 to 2 km S.	
Animals in Area: birds	
Other Noise Sources: mosquitos, mine, wind	
Monitoring Ends	
Sample ID: NPOR08	Cloud Cover: 100%
Date: 2024-07-20	Height of Clouds: 0-10 000 <u>10 000-25 000</u> 25 000+
Operators: DM	Air Temperature (°C): 17.9°C
Calibration Completed: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Wind Speed (km/h): 22 km/h
Sensitivity: 29.70 mv/Pa	Wind Direction: WNW
Deviation: 0.08 db	Relative Humidity (%): 58%
Time of Calibration: 11:15 AM	Precipitation: None <input checked="" type="radio"/> Drizzle <input type="radio"/> Rain
Photographs of Set up: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Barometric Pressure (kPa): 102.3 kPa
Photographs of Surroundings: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Northing: 543707
Check Available Memory on SD Card: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Easting: 6987279
Battery Power Check: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Noise Monitor End Time: 11:25 AM

Monitoring Starts	
Sample ID: NPOR08	Cloud Cover: 25%
Date: 2024-07-26	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: SK-AT	Air Temperature (°C): 19.3
Calibration Completed: (Y/N)	Wind Speed (km/h): 12 Km/h
Sensitivity: 29.50 mV/Pa	Wind Direction: 154° SSE
Deviation: -0.06 dB	Relative Humidity (%): 62%
Time of Calibration: 16:06	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 6987296
Check Available Memory on SD Card: (Y/N)	Easting: 543679
Battery Power Check: (Y/N)	Noise Monitor Start Time: 14:15
General Site Description	
Type of Ground Surface: Tundra - Canadian shield	
Traffic in Area: None	
Human Activities in Area: None	
Animals in Area: None observed	
Other Noise Sources:	
Monitoring Ends	
Sample ID: NPOR08	Cloud Cover: 10%
Date: 2024-07-29	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: SK-SG	Air Temperature (°C): 21.3
Calibration Completed: (Y/N)	Wind Speed (km/h): 18.9
Sensitivity: 29.52 mV/Pa	Wind Direction: 210 - SW
Deviation: 0.00 dB	Relative Humidity (%): 52.1
Time of Calibration: 8:00am 07-30	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 6987296
Check Available Memory on SD Card: (Y/N)	Easting: 543679
Battery Power Check: (Y/N)	Noise Monitor End Time: 14:05

Monitoring Starts

Sample ID: NPOR08	Cloud Cover: 15
Date: 2024-09-29	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: ALB - AT	Air Temperature (°C): 7.5
Calibration Completed: (Y/N)	Wind Speed (km/h): Aug 28.4
Sensitivity: 29.66	Wind Direction: W
Deviation: 0.02	Relative Humidity (%): 77.6
Time of Calibration: 11:11	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: (Y/N)	Noise Monitor Start Time: 11:30

General Site Description

Type of Ground Surface:	tundra (moss, rocks, organic matter)
Traffic in Area:	none
Human Activities in Area:	none
Animals in Area:	none
Other Noise Sources:	windy a bit at installation

Monitoring Ends

Sample ID: NPOR8	Cloud Cover: 95%
Date: 2024-09-30	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: AT	Air Temperature (°C): 8.0
Calibration Completed: (Y/N)	Wind Speed (km/h): 27.3
Sensitivity:	Wind Direction: NE
Deviation:	Relative Humidity (%): 85.7
Time of Calibration:	Precipitation: None (Drizzle) Rain
Photographs of Set up: (Y/N) partial	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: —
Check Available Memory on SD Card: (Y/N)	Easting: —
Battery Power Check: (Y/N) 90%	Noise Monitor End Time: 14:54

Monitoring Starts	
Sample ID: NPOR146	Cloud Cover: 100%
Date: 2024-08-16	Height of Clouds: <input checked="" type="radio"/> 0-10 000 <input type="radio"/> 10 000-25 000 <input type="radio"/> 25 000+
Operators: SK - DM	Air Temperature (°C): 10.4
Calibration Completed: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Wind Speed (km/h): 16
Sensitivity: 29.70 mV/Pa	Wind Direction: SE
Deviation: 0.08 dB	Relative Humidity (%): 54
Time of Calibration: 16:28	Precipitation: <input checked="" type="radio"/> None <input type="radio"/> Drizzle <input type="radio"/> Rain
Photographs of Set up: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Barometric Pressure (kPa): 101.3
Photographs of Surroundings: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Northing: 549566
Check Available Memory on SD Card: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Easting: 6981987
Battery Power Check: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Noise Monitor Start Time: 16:38 PM
General Site Description	
Type of Ground Surface: Tundra Canadian shield	
Traffic in Area: ATV traffic	
Human Activities in Area: cabin ~ 300 meters away	
Animals in Area: SIK SIK holes	
Other Noise Sources: helicopter traffic	
Monitoring Ends	
Sample ID: NPOR146	Cloud Cover: 5% (smok shield)
Date: 2024-08-20	Height of Clouds: <input checked="" type="radio"/> 0-10 000 <input type="radio"/> 10 000-25 000 <input type="radio"/> 25 000+
Operators: DM - NS	Air Temperature (°C): 12.3 °C
Calibration Completed: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Wind Speed (km/h): 19.4 km/h
Sensitivity: 30.22 mV/Pa	Wind Direction: SSE
Deviation: 0.15 dB	Relative Humidity (%): 56.7%
Time of Calibration: 9:43 AM	Precipitation: <input checked="" type="radio"/> None <input type="radio"/> Drizzle <input type="radio"/> Rain
Photographs of Set up: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Barometric Pressure (kPa):
Photographs of Surroundings: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Northing: 549566
Check Available Memory on SD Card: <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Easting: 6981987
Battery Power Check: (battery nearly dead) <input checked="" type="radio"/> (Y) <input type="radio"/> (N)	Noise Monitor End Time: 8:31 AM

Monitoring Starts			
Sample ID: NPO R 14 B		Cloud Cover: 0 %	
Date: 2024-09-12		Height of Clouds: 0-10 000 10 000-25 000 25 000+	
Operators: DM JC		Air Temperature (°C): 13.4	
Calibration Completed: y (Y/N)		Wind Speed (km/h): 11.5	
Sensitivity: 29.94 mv/PA		Wind Direction: 260° W	
Deviation: 0.13 dB		Relative Humidity (%): 56.8 %	
Time of Calibration: 15:42		Precipitation: None Drizzle Rain	
Photographs of Set up: y (Y/N)		Barometric Pressure (kPa):	
Photographs of Surroundings: y (Y/N)		Northing: 6981995	
Check Available Memory on SD Card: y (Y/N)		Easting: 0549595	
Battery Power Check: y (Y/N)		Noise Monitor Start Time:	
General Site Description			
Type of Ground Surface: Tundra shield			
Traffic in Area: NO			
Human Activities in Area: NO Cabin 300 m away			
Animals in Area: NO SIK SIK den			
Other Noise Sources: may be helicopter traffic			
Monitoring Ends			
Sample ID: NPO R 14 b		Cloud Cover: 100 %	
Date: 2024-09-16		Height of Clouds: 0-10 000 10 000-25 000 25 000+	
Operators: SK-JC in lab y		Air Temperature (°C): 12	
Calibration Completed: (Y/N)		Wind Speed (km/h): 10.2	
Sensitivity: -0.06 db 5		Wind Direction: 270 West	
Deviation: 29.72 mv/Pa		Relative Humidity (%): 74.6	
Time of Calibration: 10:51 AM lab (2024-09-17)		Precipitation: None Drizzle Rain	
Photographs of Set up: (Y/N)		Barometric Pressure (kPa):	
Photographs of Surroundings: (Y/N)		Northing: 6981995	
Check Available Memory on SD Card: (Y/N)		Easting: 549595	
Battery Power Check: (dead) (Y/N)		Noise Monitor End Time: 16:30	

(Battery dead upon arrival)

Monitoring Starts	
Sample ID: 2024 09 07	Cloud Cover: Sparse
Date: Sept 7 2024	Height of Clouds: 0-10 000 10 000-25 000 25 000+ ?
Operators: Matt Whall	Air Temperature (°C): 7.3 11.6
Calibration Completed: (Y/N)	Wind Speed (km/h): 8
Sensitivity: 29.75 mV/Pa	Wind Direction: North ESEW
Deviation: -0.09 dB	Relative Humidity (%): 76.7
Time of Calibration: 14:56	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 6971995 N
Check Available Memory on SD Card: (Y/N)	Easting: 546152 E
Battery Power Check: (Y/N)	Noise Monitor Start Time: 15:20
General Site Description	
Type of Ground Surface: lowland tundra / soft w puddles	
Traffic in Area: trucks / ATVs / AWARD vehicles	
Human Activities in Area: AWARD / local side roads	
Animals in Area: Snow geese / Canadians	
Other Noise Sources: wind	
Monitoring Ends	
Sample ID: 2024 09 07	Cloud Cover: Fog
Date: Sept 8 2024	Height of Clouds: (0-10 000) 10 000-25 000 25 000+
Operators: Matt Whall + Jayden	Air Temperature (°C): 6
Calibration Completed: (Y/N)	Wind Speed (km/h): 26
Sensitivity: 29.49 mV/Pa	Wind Direction: SE
Deviation: -0.08 dB	Relative Humidity (%): 100
Time of Calibration: 15:58	Precipitation: Fog None Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa): 101.0
Photographs of Surroundings: (Y/N)	Northing: same
Check Available Memory on SD Card: (Y/N)	Easting: same
Battery Power Check: (Y/N)	Noise Monitor End Time: 15:56

Monitoring Starts	
Sample ID: LPOR17A	Cloud Cover: 10%
Date: 2024-07-12	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: NB DM	Air Temperature (°C): 17
Calibration Completed: (Y/N)	Wind Speed (km/h): 17
Sensitivity: 29.59	Wind Direction: S
Deviation: 0.06	Relative Humidity (%): 48.8
Time of Calibration: 5:15 PM	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 6971995
Check Available Memory on SD Card: (Y/N)	Easting: 054615a
Battery Power Check: (Y/N)	Noise Monitor Start Time: 5:30 PM
General Site Description	
Type of Ground Surface: Tundra	
Traffic in Area: Heavy traffic	
Human Activities in Area: —	
Animals in Area: Birds, siksiks	
Other Noise Sources:	
Monitoring Ends	
Sample ID: LPOR17A	Cloud Cover: 75%
Date: 2024-07-14	Height of Clouds: 0-10 000 10 000-25 000 25 000+
Operators: NB DM	Air Temperature (°C): 16.4
Calibration Completed: (Y/N)	Wind Speed (km/h): 5.4
Sensitivity: 29.18 mV/BA	Wind Direction: SSE
Deviation: -0.12 DB	Relative Humidity (%): 58.1
Time of Calibration: 17:08	Precipitation: (None) Drizzle Rain
Photographs of Set up: (Y/N)	Barometric Pressure (kPa):
Photographs of Surroundings: (Y/N)	Northing: 6971995
Check Available Memory on SD Card: (Y/N)	Easting: 0546152
Battery Power Check: (Y/N)	Noise Monitor End Time: 17:07

* Legs of the installation were not fully extended (2 of 3 telescopic settings)

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. Due to a malfunction of temperature and precipitation sensors at the onsite station, some values reported are those recorded at the Rankin Inlet weather station.

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L_{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-07-12 18:00	0.0	15.6	62	11.7	326				-
2024-07-12 19:00	0.0	15.3	66	11.4	327				37.0
2024-07-12 20:00	0.0	14.2	64	14.3	327				45.8
2024-07-12 21:00	0.0	12.6	69	11.4	337				39.8
2024-07-12 22:00	0.0	11.2	69	5.0	336				46.1
2024-07-12 23:00	0.0	10.2	73	1.0	4				45.3
2024-07-13 0:00	0.0	10.0	73	.	.				46.9
2024-07-13 1:00	0.0	10.1	82	2.5	250				45.7
2024-07-13 2:00	0.0	9.3	80	6.1	235				39.7
2024-07-13 3:00	0.0	9.4	78	6.6	235				42.8
2024-07-13 4:00	0.0	9.2	83	6.4	237				41.4
2024-07-13 5:00	0.0	8.9	84	3.9	265				37.5
2024-07-13 6:00	0.0	10.4	82	1.5	306				38.4
2024-07-13 7:00	0.0	11.6	73	3.9	317				39.0
2024-07-13 8:00	0.0	12.7	59	5.6	327				37.1
2024-07-13 9:00	0.0	13.6	60	5.9	335				33.6
2024-07-13 10:00	0.0	13.9	51	7.6	331				39.6
2024-07-13 11:00	0.0	13.4	52	5.8	325				35.7
2024-07-13 12:00	0.0	14.2	45	8.0	316				40.1
2024-07-13 13:00	0.0	14.7	51	8.2	303				33.0
2024-07-13 14:00	0.0	14.0	52	11.1	302				32.7
2024-07-13 15:00	0.0	13.7	60	8.4	298				36.6
2024-07-13 16:00	0.0	14.3	61	10.3	299				36.4
2024-07-13 17:00	0.0	14.1	61	8.2	283				34.6
2024-07-13 18:00	0.0	11.5	70	8.6	240				32.9
2024-07-13 19:00	0.0	11.1	72	8.5	197				31.0
2024-07-13 20:00	0.0	10.1	74	8.3	182				33.0
2024-07-13 21:00	0.0	8.4	81	7.0	160				34.7
2024-07-13 22:00	0.0	11.1	86	9.0	172				32.7
2024-07-13 23:00	0.0	10.6	82	8.2	185				34.4
2024-07-14 0:00	0.0	9.8	86	7.7	190				30.0
2024-07-14 1:00	0.0	9.6	89	7.4	208				29.6
2024-07-14 2:00	0.0	9.8	89	6.1	215				29.2

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-07-14 3:00	0.0	9.9	94	8.6	226				34.3
2024-07-14 4:00	0.0	10.2	93	4.1	220				37.9
2024-07-14 5:00	0.0	10.2	96	2.5	188				32.1
2024-07-14 6:00	0.0	9.7	89	5.3	192				31.3
2024-07-14 7:00	0.0	10.0	89	4.1	220				38.0
2024-07-14 8:00	0.0	10.9	86	1.2	238				33.7
2024-07-14 9:00	0.0	11.6	91	2.2	49				34.3
2024-07-14 10:00	0.0	7.0	94	6.0	65				31.5
2024-07-14 11:00	0.0	7.1	92	8.7	112				37.4
2024-07-14 12:00	0.0	13.0	87	9.7	122				35.0
2024-07-14 13:00	0.0	7.3	94	8.6	157				33.0
2024-07-14 14:00	0.0	10.6	90	7.2	157				34.0
2024-07-14 15:00	0.0	10.5	78	5.6	175				37.1
2024-07-14 16:00	0.0	12.2	70	4.9	165				31.7
2024-07-14 17:00	0.0	12.7	62	6.6	210				33.8
2024-07-14 18:00	0.0	13.0	66	4.9	175				-
2024-07-18 12:00	0.0	12.1	66	9.8	21		-		
2024-07-18 13:00	0.0	12.1	69	9.2	41		49.9		
2024-07-18 14:00	0.0	12.7	61	8.6	205		47.3		
2024-07-18 15:00	0.0	12.8	58	9.2	197		35.0		
2024-07-18 16:00	0.0	13.8	54	8.4	191		44.7		
2024-07-18 17:00	0.0	14.0	54	9.9	201		37.1		
2024-07-18 18:00	0.0	13.7	57	11.0	200		39.2		
2024-07-18 19:00	0.0	16.1	56	11.1	206		45.6		
2024-07-18 20:00	0.0	15.7	60	9.7	209		43.4		
2024-07-18 21:00	0.0	14.7	60	8.5	215		31.7		
2024-07-18 22:00	0.0	13.7	68	9.3	231		33.7		
2024-07-18 23:00	0.0	12.4	77	10.1	238		30.3		
2024-07-19 0:00	0.0	11.2	80	10.9	251		29.6		
2024-07-19 1:00	0.0	10.7	83	8.9	254		27.2		
2024-07-19 2:00	0.0	10.4	87	7.8	283		29.9		
2024-07-19 3:00	0.0	10.6	87	8.6	85		31.2		
2024-07-19 4:00	0.0	9.1	84	6.7	137		39.5		
2024-07-19 5:00	0.0	9.3	83	7.0	133		36.1		
2024-07-19 6:00	0.0	10.5	79	8.6	118		33.6		
2024-07-19 7:00	0.0	12.1	75	7.6	104		46.4		

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-07-19 8:00	0.0	13.7	68	4.3	76		37.1		
2024-07-19 9:00	0.0	10.1	68	3.7	6		48.1		
2024-07-19 10:00	0.0	12.6	68	4.6	347		44.5		
2024-07-19 11:00	0.0	13.4	66	4.6	356		23.4		
2024-07-19 12:00	0.0	12.6	68	7.0	338		24.2		
2024-07-19 13:00	0.0	13.6	63	4.9	347		24.5		
2024-07-19 14:00	0.0	13.2	64	9.9	169		37.5		
2024-07-19 15:00	0.0	12.7	66	14.0	177		40.8		
2024-07-19 16:00	0.0	13.9	64	13.5	177		43.3		
2024-07-19 17:00	0.0	13.3	67	12.3	185		43.5		
2024-07-19 18:00	0.0	15.7	64	11.1	186		41.1		
2024-07-19 19:00	0.0	15.1	60	9.4	187		41.7		
2024-07-19 20:00	0.0	14.4	63	10.7	197		33.8		
2024-07-19 21:00	0.0	13.7	73	11.5	196		34.7		
2024-07-19 22:00	0.0	12.9	73	12.3	203		34.9		
2024-07-19 23:00	0.0	12.6	73	11.6	206		35.7		
2024-07-20 0:00	0.0	12.6	77	12.2	212		42.5		
2024-07-20 1:00	0.0	12.9	77	9.9	229		34.4		
2024-07-20 2:00	0.0	13.2	79	11.1	236		33.7		
2024-07-20 3:00	0.0	13.4	80	10.9	235		32.0		
2024-07-20 4:00	0.0	12.9	84	8.5	237		33.5		
2024-07-20 5:00	0.0	13.3	82	7.6	248		31.0		
2024-07-20 6:00	0.0	14.4	74	11.2	267		30.0		
2024-07-20 7:00	0.0	14.4	66	13.5	273		41.3		
2024-07-20 8:00	0.0	15.4	66	16.9	283		-		
2024-07-20 9:00	0.0	16.1	67	15.8	282		-		
2024-07-20 10:00	0.0	16.1	57	11.3	296		53.6		
2024-07-20 11:00	0.1	14.8	73	10.5	299		-		
2024-07-26 17:00	0.0	12.5	80	11.6	135		-		
2024-07-26 18:00	0.0	12.2	83	9.4	153		49.8		
2024-07-26 19:00	0.0	10.1	92	9.8	137		54.0		
2024-07-26 20:00	0.0	9.5	90	12.7	119		36.0		
2024-07-26 21:00	0.0	10.8	85	12.1	113		37.9		
2024-07-26 22:00	0.0	12.2	92	10.9	112		35.7		
2024-07-26 23:00	0.0	11.2	90	13.0	110		34.9		
2024-07-27 0:00	0.0	10.4	91	12.7	111		36.4		

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-07-27 1:00	0.0	9.8	79	14.4	108		37.3		
2024-07-27 2:00	0.0	9.1	78	16.0	103		-		
2024-07-27 3:00	0.0	9.0	72	16.6	103		-		
2024-07-27 4:00	0.0	9.1	78	18.3	100		-		
2024-07-27 5:00	0.0	9.6	69	20.2	98		-		
2024-07-27 6:00	0.0	9.8	72	20.9	93		-		
2024-07-27 7:00	0.0	10.6	62	20.9	95		-		
2024-07-27 8:00	0.0	10.7	59	23.9	96		-		
2024-07-27 9:00	0.0	11.7	74	21.0	104		-		
2024-07-27 10:00	0.0	10.3	71	21.8	101		-		
2024-07-27 11:00	0.0	10.0	74	18.5	105		-		
2024-07-27 12:00	0.0	7.6	84	17.3	110		-		
2024-07-27 13:00	0.0	7.4	82	16.5	112		-		
2024-07-27 14:00	0.0	7.2	84	15.3	118		-		
2024-07-27 15:00	0.0	8.3	80	12.1	116		53.9		
2024-07-27 16:00	0.0	6.3	87	10.5	109		53.9		
2024-07-27 17:00	0.0	7.1	85	9.9	112		45.9		
2024-07-27 18:00	0.0	7.2	85	9.0	154		29.8		
2024-07-27 19:00	0.0	5.7	95	9.7	150		52.2		
2024-07-27 20:00	0.0	5.5	99	8.0	163		35.5		
2024-07-27 21:00	0.0	8.7	100	7.1	166		36.4		
2024-07-27 22:00	0.0	6.8	96	4.3	174		28.1		
2024-07-27 23:00	0.0	6.3	100	0.7	207		22.4		
2024-07-28 0:00	0.0	6.2	100	0.3	249		24.0		
2024-07-28 1:00	0.0	5.9	100	2.5	212		29.1		
2024-07-28 2:00	0.0	5.3	100	4.6	232		28.7		
2024-07-28 3:00	0.0	4.9	100	3.6	257		30.8		
2024-07-28 4:00	0.0	4.8	100	2.8	251		29.9		
2024-07-28 5:00	0.0	5.8	100	4.1	226		30.1		
2024-07-28 6:00	0.0	6.3	100	5.5	212		28.2		
2024-07-28 7:00	0.1	7.6	100	6.0	227		29.1		
2024-07-28 8:00	0.0	9.4	100	7.9	227		30.4		
2024-07-28 9:00	0.0	12.0	96	8.8	232		43.2		
2024-07-28 10:00	0.0	14.7	74	9.6	254		49.8		
2024-07-28 11:00	0.0	17.4	61	11.3	318		53.1		
2024-07-28 12:00	0.0	17.2	62	12.7	328		47.5		
2024-07-28 13:00	0.0	18.4	58	12.0	340		46.8		

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-07-28 14:00	0.0	19.9	47	11.9	335		35.7		
2024-07-28 15:00	0.0	9.8	78	18.3	36		-		
2024-07-28 16:00	0.0	9.4	77	19.9	94		-		
2024-07-28 17:00	0.0	8.9	78	16.3	95		-		
2024-07-28 18:00	0.0	8.8	74	12.9	95		43.0		
2024-07-28 19:00	0.0	8.5	73	14.9	92		49.3		
2024-07-28 20:00	0.0	12.5	75	10.4	102		40.4		
2024-07-28 21:00	0.0	11.3	79	8.1	119		35.6		
2024-07-28 22:00	0.0	9.7	72	6.4	148		36.2		
2024-07-28 23:00	0.0	8.9	74	7.4	137		28.5		
2024-07-29 0:00	0.0	8.8	84	5.4	138		31.6		
2024-07-29 1:00	0.1	7.9	86	5.5	143		28.6		
2024-07-29 2:00	0.0	7.3	87	5.9	145		27.8		
2024-07-29 3:00	0.0	7.2	92	5.4	138		28.8		
2024-07-29 4:00	0.0	7.0	89	5.9	138		33.3		
2024-07-29 5:00	0.1	7.1	90	8.4	138		36.0		
2024-07-29 6:00	0.0	8.5	85	10.0	139		38.1		
2024-07-29 7:00	0.0	9.4	96	11.7	145		51.9		
2024-07-29 8:00	0.0	10.8	96	12.7	143		51.0		
2024-07-29 9:00	0.0	11.2	91	13.3	143		51.6		
2024-07-29 10:00	0.0	11.2	86	14.7	140		48.7		
2024-07-29 11:00	0.0	12.1	78	12.8	149		53.6		
2024-07-29 12:00	0.0	13.7	76	12.0	159		43.9		
2024-07-29 13:00	0.0	14.7	68	11.0	163		40.1		
2024-07-29 14:00	0.0	15.3	62	12.8	162		47.0		
2024-07-29 15:00	0.0	13.7	75	17.0	183		-		
2024-08-16 16:00	0.0	9.7	68	18.4	69			-	
2024-08-16 17:00	0.0	9.7	70	13.5	61			34.2	
2024-08-16 18:00	0.0	9.4	64	10.9	62			34.7	
2024-08-16 19:00	0.0	9.2	78	8.5	48			23.4	
2024-08-16 20:00	0.0	9.0	73	7.8	41			30.7	
2024-08-16 21:00	0.0	8.7	76	7.5	45			22.7	
2024-08-16 22:00	0.0	8.4	81	7.2	54			21.5	
2024-08-16 23:00	0.1	8.3	76	10.7	59			31.5	
2024-08-17 0:00	0.0	8.0	82	8.6	70			26.1	
2024-08-17 1:00	0.0	8.0	84	3.7	59			24.4	

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-08-17 2:00	0.0	8.0	88	1.3	48			21.6	
2024-08-17 3:00	0.0	8.0	90	7.6	28			25.2	
2024-08-17 4:00	0.0	8.1	91	7.0	44			33.4	
2024-08-17 5:00	0.0	8.1	92	1.8	13			29.1	
2024-08-17 6:00	0.0	8.4	89	6.3	14			34.7	
2024-08-17 7:00	0.0	8.6	90	10.1	9			31.3	
2024-08-17 8:00	0.0	8.7	89	15.9	14			-	
2024-08-17 9:00	0.0	8.9	80	12.2	46			33.0	
2024-08-17 10:00	0.0	9.2	81	8.0	89			28.4	
2024-08-17 11:00	0.0	9.4	87	5.9	126			26.8	
2024-08-17 12:00	0.0	9.6	79	5.3	121			32.3	
2024-08-17 13:00	0.0	10.5	72	3.3	103			33.5	
2024-08-17 14:00	0.0	11.9	76	3.6	6			36.5	
2024-08-17 15:00	0.0	12.7	74	5.7	341			32.0	
2024-08-17 16:00	0.0	13.5	70	10.0	13			34.6	
2024-08-17 17:00	0.0	14.0	70	12.7	359			39.4	
2024-08-17 18:00	0.0	14.5	73	13.1	15			35.5	
2024-08-17 19:00	0.0	14.2	73	8.3	349			43.4	
2024-08-17 20:00	0.0	13.3	81	3.8	275			30.2	
2024-08-17 21:00	0.0	12.0	92	5.2	225			29.5	
2024-08-17 22:00	0.0	10.8	87	4.8	233			23.6	
2024-08-17 23:00	0.0	10.1	83	4.6	310			24.9	
2024-08-18 0:00	0.0	9.4	97	5.3	355			25.8	
2024-08-18 1:00	0.1	9.8	99	11.8	338			23.2	
2024-08-18 2:00	0.0	10.0	98	15.8	329			-	
2024-08-18 3:00	0.0	9.9	87	13.7	331			33.6	
2024-08-18 4:00	0.0	10.0	88	17.4	322			-	
2024-08-18 5:00	0.0	9.6	91	14.3	327			35.7	
2024-08-18 6:00	0.0	9.9	89	17.8	311			-	
2024-08-18 7:00	0.0	10.9	86	18.3	320			-	
2024-08-18 8:00	0.0	12.1	80	18.3	326			-	
2024-08-18 9:00	0.0	13.7	72	16.0	330			-	
2024-08-18 10:00	0.0	15.9	57	16.3	326			-	
2024-08-18 11:00	0.0	16.9	49	16.4	319			-	
2024-08-18 12:00	0.0	17.6	45	17.9	303			-	
2024-08-18 13:00	0.0	17.8	50	18.2	299			-	
2024-08-18 14:00	0.0	18.7	43	17.5	299			-	

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-08-18 15:00	0.0	17.1	50	17.7	300			-	
2024-08-18 16:00	0.0	18.4	46	17.2	298			-	
2024-08-18 17:00	0.0	18.1	44	16.7	307			-	
2024-08-18 18:00	0.0	17.3	47	15.0	311			-	
2024-08-18 19:00	0.0	15.4	55	19.8	289			-	
2024-08-18 20:00	0.0	12.8	68	15.8	287			-	
2024-08-18 21:00	0.0	11.5	73	13.3	286			28.6	
2024-08-18 22:00	0.0	10.5	77	10.6	289			27.2	
2024-08-18 23:00	0.0	10.7	80	8.1	270			26.7	
2024-08-19 0:00	0.1	10.6	80	8.5	251			20.9	
2024-08-19 1:00	0.1	10.4	82	9.4	244			23.5	
2024-08-19 2:00	0.0	9.7	89	10.2	229			27.1	
2024-08-19 3:00	0.0	9.3	90	9.6	231			29.8	
2024-08-19 4:00	0.0	9.6	86	10.8	231			27.8	
2024-08-19 5:00	0.0	9.5	91	12.6	231			31.3	
2024-08-19 6:00	0.0	9.9	81	11.3	230			34.0	
2024-08-19 7:00	0.0	11.3	77	8.7	221			35.4	
2024-08-19 8:00	0.0	12.5	76	14.1	230			36.1	
2024-08-19 9:00	0.0	15.0	64	14.8	240			41.8	
2024-08-19 10:00	0.0	16.6	56	20.9	256			-	
2024-08-19 11:00	0.0	17.3	51	21.0	259			-	
2024-08-19 12:00	0.0	17.8	49	22.6	251			-	
2024-08-19 13:00	0.0	17.9	49	24.2	255			-	
2024-08-19 14:00	0.0	18.0	49	23.0	258			-	
2024-08-19 15:00	0.0	17.9	52	20.2	259			-	
2024-08-19 16:00	0.0	17.9	52	16.5	254			-	
2024-08-19 17:00	0.0	17.5	53	14.9	249			36.3	
2024-08-19 18:00	0.0	14.7	66	12.8	247			34.4	
2024-08-19 19:00	0.0	12.9	72	10.6	222			37.0	
2024-08-19 20:00	0.0	11.4	79	10.1	202			35.2	
2024-08-19 21:00	0.0	10.8	82	10.4	193			34.1	
2024-08-19 22:00	0.0	10.2	84	10.3	198			34.7	
2024-08-19 23:00	0.0	9.9	84	10.5	195			34.4	
2024-08-20 0:00	0.0	9.6	87	11.2	193			33.2	
2024-08-20 1:00	0.0	11.2	83	11.4	191			35.9	
2024-08-20 2:00	0.0	11.2	88	12.8	187			33.1	
2024-08-20 3:00	0.0	10.8	92	9.3	177			28.5	

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-08-20 4:00	0.0	9.5	87	6.1	147			26.5	
2024-08-20 5:00	0.0	9.1	91	8.5	146			31.0	
2024-08-20 6:00	0.0	9.1	85	9.3	146			32.3	
2024-08-20 7:00	0.0	9.7	83	9.3	152			38.9	
2024-08-20 8:00	0.0	10.8	81	10.4	148			-	
2024-09-07 12:00	0.0	8.6	93	8.0	153	-			
2024-09-07 13:00	0.0	9.3	90	7.9	158	42.0			
2024-09-07 14:00	0.0	10.8	85	6.4	169	40.1			
2024-09-07 15:00	0.0	12.1	87	5.6	149	36.5			
2024-09-07 16:00	0.0	12.0	82	7.6	142	38.4			-
2024-09-07 17:00	0.0	11.8	89	6.3	149	36.8			36.9
2024-09-07 18:00	0.0	10.9	92	7.0	146	33.3			36.4
2024-09-07 19:00	0.0	9.3	96	8.8	139	35.4			36.1
2024-09-07 20:00	0.0	6.8	97	11.9	132	41.8			42.1
2024-09-07 21:00	0.0	6.3	99	12.7	131	42.1			39.1
2024-09-07 22:00	0.0	5.7	100	12.5	130	42.3			38.9
2024-09-07 23:00	0.0	5.3	100	11.9	132	33.5			38.7
2024-09-08 0:00	0.0	5.2	100	8.8	134	38.3			37.8
2024-09-08 1:00	0.0	4.6	100	9.0	134	42.6			37.7
2024-09-08 2:00	0.0	4.1	100	9.4	130	41.5			38.1
2024-09-08 3:00	0.0	4.3	100	11.1	134	32.9			37.9
2024-09-08 4:00	0.0	3.9	100	10.7	137	35.4			37.0
2024-09-08 5:00	0.0	4.0	100	14.4	128	37.6			37.7
2024-09-08 6:00	0.0	4.1	100	16.0	130	-			-
2024-09-08 7:00	0.0	4.5	100	13.0	133	45.3			42.6
2024-09-08 8:00	0.0	6.1	100	10.6	138	43.3			35.9
2024-09-08 9:00	0.0	6.6	100	11.9	141	41.2			38.7
2024-09-08 10:00	0.0	7.1	100	11.4	143	40.8			38.4
2024-09-08 11:00	0.0	7.1	100	13.0	142	41.4			39.3
2024-09-08 12:00	0.0	7.2	100	13.4	142	41.6			42.8
2024-09-08 13:00	0.0	7.0	100	13.9	139	45.4			43.6
2024-09-08 14:00	0.0	7.0	100	18.8	130	-			-
2024-09-08 15:00	0.0	6.9	100	14.7	134	43.6			46.1
2024-09-08 16:00	0.0	6.7	100	13.9	136	-			-
2024-09-12 16:00	0.0	.	11.7	59	264			-	

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-09-12 17:00	0.0	.	12.0	56	256	-		41.5	
2024-09-12 18:00	0.0	.	9.2	75	203	23.2		30.1	
2024-09-12 19:00	0.0	.	8.6	85	182	33.4		24.8	
2024-09-12 20:00	0.0	9.1	9.1	78	174	37.1		28.5	
2024-09-12 21:00	0.0	8.6	8.6	82	189	43.4		49.2	
2024-09-12 22:00	0.0	8.1	8.1	85	187	35.1		30.0	
2024-09-12 23:00	0.0	8.2	8.2	78	188	36.4		30.0	
2024-09-13 0:00	0.0	8.2	8.2	82	180	44.6		29.4	
2024-09-13 1:00	0.0	8.2	8.2	81	181	43.5		30.6	
2024-09-13 2:00	0.0	7.9	7.9	82	185	43.8		28.7	
2024-09-13 3:00	0.0	7.8	7.8	83	192	40.6		32.4	
2024-09-13 4:00	0.0	7.5	7.5	93	180	46.5		29.6	
2024-09-13 5:00	0.0	7.3	7.3	95	170	42.3		31.0	
2024-09-13 6:00	0.0	6.7	6.7	91	154	39.7		30.6	
2024-09-13 7:00	0.0	6.9	6.9	89	146	45.3		34.3	
2024-09-13 8:00	0.0	7.2	7.2	94	154	44.2		36.1	
2024-09-13 9:00	0.0	7.4	7.4	91	151	46.9		41.4	
2024-09-13 10:00	0.0	7.8	7.8	91	141	45.5		40.2	
2024-09-13 11:00	0.0	8.9	8.9	93	134	43.9		32.1	
2024-09-13 12:00	0.0	10.0	10.0	90	137	41.0		36.5	
2024-09-13 13:00	0.0	11.1	11.1	87	154	44.7		39.4	
2024-09-13 14:00	0.0	11.4	11.4	82	174	42.5		42.0	
2024-09-13 15:00	0.0	12.0	12.0	85	176	41.5		43.3	
2024-09-13 16:00	0.0	12.0	12.0	88	150	40.2		38.1	
2024-09-13 17:00	0.0	11.6	11.6	93	149	34.7		30.0	
2024-09-13 18:00	0.0	10.4	10.4	98	132	34.4		28.4	
2024-09-13 19:00	0.0	9.0	9.0	99	138	33.9		26.2	
2024-09-13 20:00	0.0	8.4	8.4	95	136	39.0		27.0	
2024-09-13 21:00	0.0	6.9	6.9	100	133	43.8		26.7	
2024-09-13 22:00	0.1	6.3	6.3	100	132	43.8		23.8	
2024-09-13 23:00	0.0	6.6	6.6	100	115	36.9		30.0	
2024-09-14 0:00	0.0	6.6	6.6	100	98	37.6		27.4	
2024-09-14 1:00	0.0	6.8	6.8	100	101	39.7		21.8	
2024-09-14 2:00	0.0	7.1	7.1	100	117	38.0		24.8	
2024-09-14 3:00	0.0	7.0	7.0	100	100	-		-	
2024-09-14 4:00	0.0	7.2	7.2	100	96	-		-	
2024-09-14 5:00	0.5	6.9	6.9	99	95	-		-	

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-09-14 6:00	1.0	5.9	5.9	96	95	-		-	
2024-09-14 7:00	1.3	2.1	2.1	98	90	-		-	
2024-09-14 8:00	0.9	1.5	1.5	98	92	-		-	
2024-09-14 9:00	2.2	.	6.3	98	88	-		-	
2024-09-14 10:00	3.8	.	6.3	97	84	-		-	
2024-09-14 11:00	2.7	.	6.4	98	85	-		-	
2024-09-14 12:00	2.2	.	6.4	98	87	-		-	
2024-09-14 13:00	3.7	.	6.4	98	85	-		-	
2024-09-14 14:00	3.9	.	6.4	99	94	-		-	
2024-09-14 15:00	0.9	.	6.5	99	98	-		-	
2024-09-14 16:00	0.0	.	6.5	99	98	-		-	
2024-09-14 17:00	0.0	.	6.5	100	99	-		-	
2024-09-14 18:00	0.0	.	6.5	100	99	-		-	
2024-09-14 19:00	0.0	.	6.5	100	99	-		-	
2024-09-14 20:00	0.0	.	6.6	100	101	-		-	
2024-09-14 21:00	0.0	.	6.6	100	97	-		-	
2024-09-14 22:00	0.0	.	6.6	100	98	-		-	
2024-09-14 23:00	0.1	.	6.6	100	101	-		-	
2024-09-15 0:00	3.4	.	6.7	100	101	-		-	
2024-09-15 1:00	1.4	.	6.6	100	103	-		-	
2024-09-15 2:00	0.0	6.7	6.7	99	106	-		-	
2024-09-15 3:00	0.0	7.1	7.1	100	107	-		-	
2024-09-15 4:00	0.0	7.3	7.3	100	112	-		-	
2024-09-15 5:00	0.0	7.4	7.4	100	117	-		-	
2024-09-15 6:00	0.0	7.3	7.3	100	112	-		-	
2024-09-15 7:00	0.0	7.8	7.8	100	111	47.3		40.0	
2024-09-15 8:00	0.0	8.1	8.1	100	134	45.3		39.9	
2024-09-15 9:00	0.0	7.8	7.8	100	150	43.1		33.4	
2024-09-15 10:00	0.1	7.5	7.5	100	128	43.1		38.3	
2024-09-15 11:00	0.2	7.5	7.5	100	120	41.5		32.6	
2024-09-15 12:00	0.5	7.7	7.7	100	118	39.1		37.9	
2024-09-15 13:00	0.1	8.1	8.1	100	134	42.7		28.5	
2024-09-15 14:00	0.0	8.7	8.7	100	176	30.5		27.3	
2024-09-15 15:00	0.0	8.8	8.8	100	209	36.3		29.3	
2024-09-15 16:00	0.0	8.8	8.8	100	213	36.2		30.1	
2024-09-15 17:00	0.0	8.7	8.7	100	225	36.4		26.3	
2024-09-15 18:00	0.0	8.5	8.5	100	249	23.2		33.1	

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-09-15 19:00	0.2	8.4	8.4	100	3	22.2		26.0	
2024-09-15 20:00	0.0	7.9	7.9	100	19	20.8		24.1	
2024-09-15 21:00	0.0	6.7	6.7	100	29	-		-	
2024-09-15 22:00	0.0	6.3	6.3	100	25	-		-	
2024-09-15 23:00	0.2	6.3	6.3	100	17	-		-	
2024-09-16 0:00	0.1	6.0	6.0	100	3	-		-	
2024-09-16 1:00	0.0	5.7	5.7	100	3	-		-	
2024-09-16 2:00	0.0	5.6	5.6	100	2	-		-	
2024-09-16 3:00	0.0	5.4	5.4	100	359	-		-	
2024-09-16 4:00	0.0	5.2	5.2	100	360			-	
2024-09-16 5:00	0.0	5.2	5.2	100	348			-	
2024-09-16 6:00	0.0	5.3	5.3	100	338			-	
2024-09-16 7:00	0.0	5.3	5.3	100	331			-	
2024-09-16 8:00	0.0	5.3	5.3	100	331			-	
2024-09-16 9:00	0.0	5.6	5.6	100	336			-	
2024-09-16 10:00	0.0	6.0	6.0	93	329			-	
2024-09-29 12:00	0.0	7.9	77	19.9	236		-		
2024-09-29 13:00	0.0	8.4	65	19.2	239		-		
2024-09-29 14:00	0.0	8.8	70	23.8	252		-		
2024-09-29 15:00	0.0	9.5	70	21.4	256		-		
2024-09-29 16:00	0.0	9.7	71	19.9	244		-		
2024-09-29 17:00	0.0	9.1	74	15.4	240		-		
2024-09-29 18:00	0.0	8.2	77	11.6	230		41.0		
2024-09-29 19:00	0.0	7.5	87	11.6	222		31.4		
2024-09-29 20:00	0.0	6.9	90	9.6	202		33.8		
2024-09-29 21:00	0.0	5.9	93	10.0	206		31.4		
2024-09-29 22:00	0.0	5.6	91	10.7	209		30.1		
2024-09-29 23:00	0.0	5.6	94	11.3	218		30.8		
2024-09-30 0:00	0.0	5.3	96	9.8	216		30.9		
2024-09-30 1:00	0.0	5.3	95	9.2	212		29.5		
2024-09-30 2:00	0.0	5.1	95	8.1	189		30.0		
2024-09-30 3:00	0.0	4.1	99	3.8	138		32.3		
2024-09-30 4:00	0.0	3.8	100	3.7	134		33.9		
2024-09-30 5:00	0.0	3.7	100	5.0	129		32.0		
2024-09-30 6:00	0.0	3.8	100	7.3	127		26.9		
2024-09-30 7:00	0.0	4.2	100	5.3	126		30.5		

Date and Time (hour ending)	Total Precip. (mm)	Avg. Air Temp (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (km/h)	Avg. Wind Direction (deg.)	1-h L _{eq} (dBA)			
						NPOR6a	NPOR8	NPOR14b	NPOR17a
2024-09-30 8:00	0.0	4.6	100	5.6	130		27.4		
2024-09-30 9:00	0.0	5.4	100	4.1	89		27.7		
2024-09-30 10:00	0.0	6.3	100	9.4	96		26.3		
2024-09-30 11:00	0.0	6.8	100	11.0	86		28.9		
2024-09-30 12:00	0.2	6.8	100	14.6	86		33.0		
2024-09-30 13:00	0.1	6.7	100	18.9	74		-		
2024-09-30 14:00	0.3	6.9	100	21.9	56		-		
2024-09-30 15:00	1.0	6.6	100	24.1	43		-		