Appendix 49

Meadowbank and Whale Tail 2021 Noise Monitoring Report

AGNICO EAGLE

MEADOWBANK COMPLEX

2021 Noise Monitoring Report

In Accordance with NIRB Project Certificates No.004 and No. 008

Prepared by:
Agnico Eagle Mines Limited – Meadowbank Complex

March, 2022

EXECUTIVE SUMMARY

The 2021 noise monitoring program at the Meadowbank Complex was conducted according to the Noise Monitoring and Abatement Plan (Version 4, December 2018). The objective of this program is to measure noise levels at 11 previously determined monitoring locations around the Meadowbank and Whale Tail sites, over at least two 24 h periods annually. Since high winds in the area tend to substantially reduce the quantity of available valid data, Agnico Eagle aims to conduct a minimum of two monitoring events of two to four days per station to fulfill monitoring objectives.

In 2021, two or three monitoring events were conducted for all stations. Due to operational difficulties (e.g. fallen noise meter, data recording problems), three surveys were voided prior to data processing (two at R5 and one at R7).

After data processing in accordance with standard methods (Alberta Energy Resource Conservation Board Directive 038), monitoring results collected under valid weather conditions were compared to the site's daytime target sound level (55 dBA), nighttime target sound level (45 dBA), and FEIS predictions for the monitoring locations (24-h L_{eq}).

Daytime, night-time, and 24 h L_{eq} values calculated from recorded 1-min L_{eq} values for each monitoring event and station are shown in Table 1. No exceedances of the site's daytime design target (55 dBA) or FEIS predictions occurred for any station. One marginal exceedance of the nighttime design target (45 dBA) occurred for one monitoring event at R2 (45.5 dBA) as a result of intermittent helicopter flyovers during the early morning hours (6 – 7 am). Since elevated noise levels only occurred during one hour of one monitoring event, and FEIS predictions were not exceeded, this event was not investigated further. Nighttime design targets were not exceeded for any monitoring event at any other monitoring station (R1, R3, R4, R6 – R11).

Historical comparisons for stations located at both the Meadowbank and Whale Tail sites indicate no clear trends towards increasing sound levels at this time. Overall, target sound levels and FEIS impact predictions are rarely exceeded site-wide.

No human receptors (e.g. cabins) are located in the vicinity of noise monitoring stations, and no noise-related complaints have been received to date. Impacts of sensory disturbance on wildlife are determined separately through the Terrestrial Ecosystem Monitoring Plan (TEMP), and reported annually in the Wildlife Summary Report.

Table 1. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R1 – R11. Day- and nighttime periods with fewer than 3 hours of valid data due to unacceptable weather conditions are excluded (-), as are surveys where operational difficulties (e.g. fallen noise meter) voided the survey (NS). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R1	7/04	*55*	36.2	*45*	35.4	*58 - 63*	35.8
	8/23		37.6		35.7		36.7
R2	7/08	*55*	50.3	*45*	29.3	*58 - 63*	48.5
	8/14		43.3		**45.5**		44.2
R3	8/26	*55*	36.7	*45*	35.0	*49 - 53*	36.1
	9/03		37.8		36.4		37.4
R4	7/29	*55*	34.4	*45*	-	*58 - 63*	-
	8/31		33.9		34.2		34.0
R5	7/22	*55*	-	*45*	-	*1 h L_{eqs} < 57*	-
	8/08		NS		NS		NS
	8/18		NS		NS		NS
R6	7/26	*55*	-	*45*	-	*40.5 - 42.5*	-
	8/27		33.6		35.1		34.2
R7	7/26	*55*	NS	*45*	NS	*36.2 - 40.4*	NS
	8/23		39.7		34.3		37.9
R8	7/04	*55*	40.4	*45*	37.8	*40.4 - 45.1*	39.3
	7/30		40.5		40.7		40.6
	9/11		39.9		43.7		41.4
R9	7/21	*55*	39.3	*45*	40.3	*40.4 - 45.1*	39.8
	8/18		34.5		37.0		35.5
R10	7/08	*55*	39.5	*45*	43.5	*45.1 – 50.0*	41.3
	8/05		44.2		-		-
R11a	7/16	*55*	39.5	*45*	27.3	*45.1 – 50.0*	37.4
	8/14		34.8		35.3		35.0

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SECTION 1 • INTRODUCTION

Since 2008, Agnico Eagle Mines Ltd. (Agnico Eagle) has conducted outdoor noise monitoring at the Meadowbank site, near Baker Lake, Nunavut, in accordance with NIRB Project Certificate No. 004. The Noise Monitoring and Abatement Plan (Version 4; December, 2018) was updated to include monitoring for the Whale Tail Pit Expansion Project, according to NIRB Project Certificate No. 008. The objective of this monitoring program is to measure representative ambient outdoor sound levels at the Meadowbank and Whale Tail sites, and to inform the implementation of noise mitigation measures.

1.1 MONITORING STATIONS

To fulfill the monitoring objectives, the Noise Monitoring and Abatement Plan (the Plan) indicates that at least two 24 h surveys of ambient outdoor noise will be conducted annually at 11 representative locations. However, due to a tendency towards sub-optimal weather conditions for noise monitoring (see Section 2.2), Agnico Eagle aims to conduct a minimum of two surveys for each location, with each survey lasting 48 hours or more.

Survey dates in 2021 and UTM coordinates for the monitoring stations are provided in Table 2. Stations are shown in relation to mine site features in Figures 1 and 2. Photos of the monitoring locations are provided in Appendix A.

Noise monitoring stations R1 – R5 for the Meadowbank site have been in place with minor adjustments since 2008. Stations R6 – R11 were added in 2018 in response to development of the Whale Tail Pit and Haul Road, and sited according to the Noise Monitoring and Abatement Plan (Version 3 - June, 2018). Prior to any field assessments at these new stations, R8 – R11 were scheduled to be moved according to the Noise Monitoring and Abatement Plan (Version 4 – December, 2018) to accommodate the Whale Tail Pit Expansion Project. This plan came into effect for the 2020 field season. However, due to an error in communication, monitoring in 2020 was conducted at the original R8 – R11 stations as described in Version 3 of the plan (locations were incorrectly reported in the 2020 Noise Monitoring Report). In 2021, station R11 was moved according to Version 4, but stations R8 – R10 were again sited according to Version 3. Both Version 3 and Version 4 locations are shown in Figure 2. For clarity, Version 4 locations have now been re-named R8a, R9a, R10a, and R11a. Version 3 locations are all closer to site activity than Version 4 locations, so results in 2020 and 2021 are expected to provide a more conservative comparison to design targets (Section 2.5). Results are additionally compared to FEIS predictions for the true monitoring locations, as described in Section 2.5, and historical comparisons for 2020 (Section 4.2) have been adjusted accordingly with the corrected FEIS predictions.

In 2022, monitoring will be conducted according to Version 4 of the Plan, at R8a, R9a, R10a, and R11a.

Table 2. UTM coordinates and monitoring dates for the Meadowbank and Whale Tail noise monitoring locations in 2021 (based on instrument recorded data). *Invalid event due to operational difficulties (e.g. fallen noise meter).

Monitoring Location	Easting	Northing	Event #	Start Time	Stop Time
R1	636151	7217333	1	7/04/21 15:45	7/07/21 14:50
			2	8/23/21 14:13	8/26/21 6:58
R2	636795	7214435	1	7/08/21 10:37	7/10/21 17:23
			2	8/14/21 11:25	8/16/21 10:07
R3	641121	7214417	1	8/26/21 15:28	8/29/21 16:15
			2	9/03/21 9:31	9/06/21 2:09
R4	639441	7218750	1	7/29/21 10:09	7/31/21 17:40
			2	8/31/21 16:54	9/02/21 13:32
R5	633779	7214494	1	7/22/21 11:06	7/24/21 10:56
			2*	8/08/21 17:44	8/11/21 4:23
			3*	08/18/21 (no data)	08/20/21 (no data)
R6	640708	7221964	1	7/26/21 15:27	7/28/21 15:59
			2	8/27/21 10:43	8/31/21 10:43
R7	620194	7239038	1*	7/26/21 15:11	7/29/21 6:32
			2	8/23/21 17:22	8/26/21 13:55
R8	610616	7256849	1	7/04/21 18:03	7/07/21 8:01
			2	7/30/21 16:44	8/02/21 12:23
			3	9/11/21 15:47	9/13/21 13:42
R9	602488	7255946	1	7/21/21 8:34	7/24/21 8:00
			2	8/18/21 8:58	8/20/21 12:50
R10	609365	7254330	1	7/08/21 11:14	7/10/21 13:25
			2	8/05/21 16:05	8/07/21 15:25
R11a	606756	7258558	1	7/16/21 13:06	7/19/21 15:48
			2	8/14/21 14:26	8/17/21 13:51

PROJECT: DA11-062-08

CLIENT: Agnico-Eagle Mines Ltd. Meadowbank Division

DATE: 12, March 2022

DRAWN BY: Janel Sauder/Nicole White

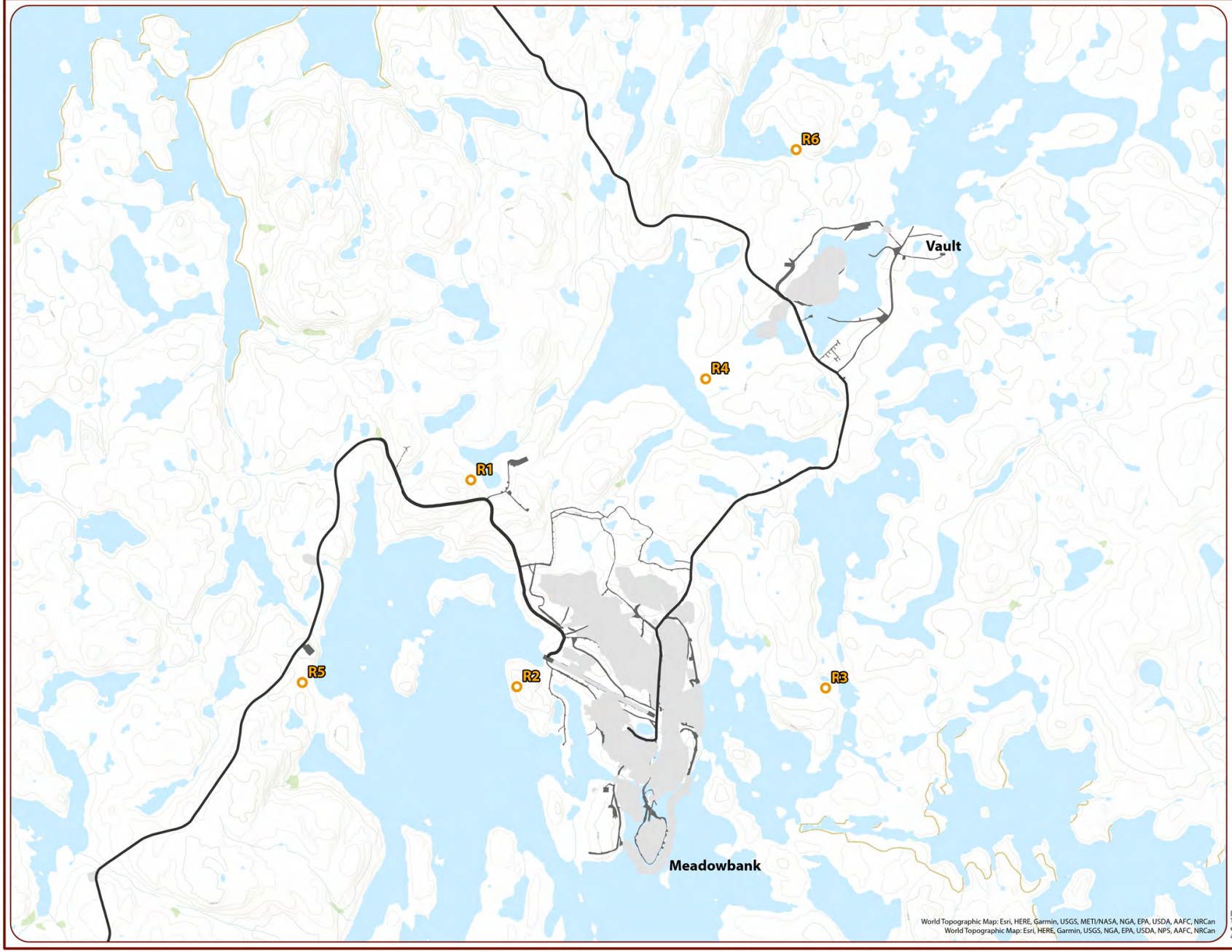


Figure 1:
Noise Monitoring
Locations R1 - R6

- Noise Monitoring Location
- Road
- Mine Site

0 0.5 1 2

Kilometres

SCALE: 1:50,000

N

UTM Zone 17N NAD83

World Topographic Map: Esri, HERE, Garmin, USGS, METI/NASA, NGA, EPA, USDA, AAFC, NRCan
World Topographic Map: Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS, AAFC, NRCan

PROJECT: DA11-062-08

CLIENT: Agnico-Eagle Mines Ltd. Meadowbank Division

DATE: 12, March 2022

DRAWN BY: Janel Sauder/Nicole White

Figure 2
Noise Monitoring
Locations R7 - R11

Noise Monitoring Location

Mine Plan (2025)

Whale Tail Haul Road

Road

Mine Site

0 0.75 1.5 3

Kilometres

SCALE: 1:80,000

N

UTM Zone 17N NAD83

Disclaimer:
The information displayed on this map has been compiled from various sources. While every effort has been made to accurately depict the information, this map should not be relied on as being a precise indicator of locations, features, or roads, nor as a guide to navigation.

1.1.1 R1

Monitoring station R1 was initially approximately 700 m south of the explosive storage area, and 400 m northeast of the all-weather access road. A spur road and a storage area were constructed within 100 m of this location in 2011. As a result, in 2014 Agnico Eagle moved this station approximately 700 m northwest of the explosives storage area to better represent the originally intended orientation.

1.1.2 R2

Monitoring station R2 is approximately 600 m west of the airstrip. Third Portage Lake is to the west and southwest and surrounding terrain is vegetated tundra with rocky outcrops.

1.1.3 R3

Monitoring station R3 is approximately 1,800 m east of the East Dike. Second Portage Lake is to the west and east, and surrounding terrain is vegetated tundra with rocky outcrops.

1.1.4 R4

Monitoring station R4 is approximately 1,500 m southwest of Vault Pit, 1,000 m from Phaser Pit, and less than 1 km from the Vault Haul Road. Turn Lake is to the west, and surrounding terrain is vegetated tundra with rocky outcrops.

1.1.5 R5

Monitoring station R5 is approximately 500 m south of the exploration camp and 300 m east of the all-weather access road. Third Portage Lake is immediately to the east, and surrounding terrain away from the shoreline is vegetated tundra with rocky outcrops. This location is situated on a known caribou migration route.

1.1.6 R6

Monitoring station R6 is located approximately 1,500 m east from the Whale Tail Pit Haul road and approximately 1,500 m north from the centre of Vault Pit. The terrain is relatively flat and covered by vegetation typical of tundra (i.e., low vegetation). In addition, the ground surface near the receptor is covered by scattered rocks. The waste rock storage area of the Vault Pit is located approximately 750 m south from the monitoring site.

1.1.7 R7

Monitoring station R7 is located approximately 1,500 m east from the Whale Tail Haul Road. The ground surface around the monitoring site is generally covered by typical tundra vegetation and scattered rocks.

1.1.8 R8 and R8a

From 2018 - 2021, station R8 was located on an elevated plateau approximately 1,500 m northeast from the Whale Tail Pit site. The ground surface in that area is covered by typical tundra vegetation and scattered rocks. This monitoring station was 150 m east of the original baseline monitoring location due to ongoing quarrying activities.

Beginning in 2022, this station will be moved to approximately 1,500 m east from the Whale Tail Pit Expansion Project, in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). It will be referred to as R8a.

1.1.9 R9 and R9a

From 2018 - 2021, station R9 was located approximately 1,500 m northwest from Whale Tail Pit. The ground surface in that area is covered by typical tundra vegetation and scattered rocks.

Beginning in 2022, this station will be re-located to approximately 1,500 m west from the Whale Tail Pit Expansion Project, in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). It will be referred to as R9a.

1.1.10 R10 and R10a

From 2018 - 2021, station R10 was located approximately 1,000 m southeast from the Whale Tail Pit site, on the east side of Whale Tail Lake.

Beginning in 2022, this station will be re-located to approximately 1,500 m south from the Whale Tail Pit Expansion Project, in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). It will be referred to as R10a.

1.1.11 R11 and R11a

From 2018 - 2020, station R11 was located approximately 1,000 m north from the Whale Tail Pit site, on the east side of Nemo Lake.

Beginning in 2021, station R11 was re-located to approximately 1,500 m north from the Whale Tail Pit Expansion Project in accordance with the Noise Monitoring and Abatement Plan, Version 4 (December, 2018). This location is referred to as R11a.

SECTION 2 • METHODS

In 2021, Agnico Eagle technicians conducted two or three noise surveys at each of the locations described in Section 1.1. These surveys provide data on average noise levels during a typical day, as well as variability of noise levels within the day.

2.1 SOUND LEVEL METER

For all stations a Bruel and Kjaer Model 2250 integrating sound level meter was used to conduct the noise survey. As in the past, the sound level logging rate was set at one-minute intervals.

The parameters logged each minute included:

- Integrated equivalent A-weighted sound level - L_{Aeq}
- Absolute maximum sound level, in dBA – L_{max}
- Absolute minimum sound level, in dBA – L_{min}
- Statistical data - L_{10}, L_{90}

Sound recordings were also obtained for the complete duration of all monitoring events to facilitate data interpretation.

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 B). Estimated uncertainty of the calibrator is ± 0.12 dB at a 99% confidence level.

2.2 WEATHER DATA

Weather data for the noise monitoring periods was collected using the mine site's permanent weather stations. The Meadowbank site weather station data was used for analysis of noise monitoring stations R1 – R6, and the Whale Tail site weather station data was used for analysis of noise monitoring stations R7 – R11. Hourly data for wind, temperature and relative humidity was available from these stations. Precipitation events were recorded for each site using a rain gauge, read daily.

The Alberta Energy Regulator Directive 038 (AER, 2007) identifies preferred weather conditions for data to be used in noise complaint investigations because wind and precipitation can affect noise levels. Based on these guidelines, noise monitoring data was filtered to remove measurements collected outside of conditions where wind speed exceeded 15 km/h (4.17 m/s), prior to data analysis. Average hourly wind speed values were used since filtering based on maximum values has historically resulted in exclusion of nearly the entire noise dataset. Historically, data was also filtered out when relative humidity exceeded 90% (assuming precipitation occurred). However, beginning in 2021, data filtering for precipitation only occurred on an as-needed basis, through review of sound recordings and cross-referencing humidity data with recorded precipitation events. Any data filtered out on this basis is described in the Results section, below. This method has been adopted to assist in data preservation, and since no noise-related complaints have been received for the site.

Weather data (wind speed, wind direction, temperature, and humidity) are provided in Appendix B.

2.3 FIELD NOTES

A pocket weather meter (Kestrel 3000) 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 noise sources during instrument set-up and take-down. All field observations are provided in Appendix C.

2.4 DATA ANALYSIS

Since noise levels constantly vary over time, the monitoring instruments used at the Meadowbank Complex measure continuously and records a single-number value for each minute, representing the equivalent sound level (L_{eq}).

All datapoints associated with the first and last hour of measurement were filtered out to remove noise from technicians, and to ensure more than 30 min of data contributed to hourly averages.

Recorded one-minute L_{eq} values were then used to calculate hourly equivalent noise levels ($L_{eq, 1h}$). After filtering based on weather considerations in accordance with Directive 038 (Section 2.2), valid hourly L_{eq} values were energy-averaged across calendar days within a monitoring event (2 – 4 sequential days) and average values for each hour were used to calculate daytime (7am-11pm), night-time (11pm-7am) and 24 h L_{eq} values for each event. This approach was taken beginning in 2016 due to the frequency of high-wind conditions, in order to maximize the utility of the available data, and obtain day- and night-time L_{eq} values with at least 3 h of coverage.

When calculated L_{eq} values exceeded FEIS predictions or noise targets, sound recordings were reviewed to identify and if appropriate, remove noise data dominated by background noise sources unrelated to mine activity, and causing recorded 1-min L_{eq} values in excess of FEIS predictions or noise targets (e.g. wind gusts, ongoing animal disturbance in close proximity to the microphone, human interference, steady precipitation). After this second data filtering, hourly L_{eq} values with less than 30 min of valid data were excluded from calculations, in accordance with Directive 038. Similarly, day- and night-time, and 24-h L_{eq} values were only calculated when more than 180 valid minutes were available from each of the daytime and nighttime periods.

These final L_{eq} values were compared to FEIS predictions and the site's noise monitoring criteria (see Table 3).

2.5 SITE NOISE TARGETS AND FEIS PREDICTIONS

Although no residential receptors are located nearby, Agnico Eagle aims to meet target sound levels identified in Environment Canada's "Environmental Code of Practice for Metal Mines" (2009) for all monitoring locations. These values are 55 dBA (daytime) and 45 dBA (night-time).

For all monitoring stations, results are also compared to predictions of sound levels made in the Project FEIS documents for the Meadowbank and Whale Tail sites (Cumberland, 2005; Agnico Eagle, 2016; 2018) (Table 3). Table 3 identifies FEIS (Agnico Eagle, 2016) predictions for Phase 1 of the Whale Tail Project, which are applied to results obtained in 2018 and 2019, and FEIS Addendum (Agnico Eagle, 2018 – Whale Tail Pit Expansion Project) predictions for both *Noise Abatement and Monitoring Plan* Version 3 locations (R8 – R11) and Version 4 locations (R8a – R11a), which are applied to results obtained in 2020+, as indicated in the table.

Predictions for Whale Tail sites (R6 – R11) have been adjusted to include contributions from background sound levels (39 dBA for R6, 30 dBA for R7-R11), as measured in the impact assessment for that project (Agnico Eagle, 2018). For the initial Meadowbank EIS (sites R1 – R5; Cumberland, 2005), contributions from background noise were not measured and assumed to be negligible in comparison to project-related noise, and were not quantified, so no adjustment was made.

While noise modeling for EIS purposes determines a single sound pressure level produced by the Project activities at a given location, in reality, noise levels vary over time, depending on contributions from background sources, wind direction, ongoing activities, etc. FEIS predictions are therefore compared to the 24-h L_{eq} calculated from monitoring results, which represents the average sound pressure level produced by all sources over the course of a day.

It is noted that in the FEIS Addendum for the Whale Tail Pit (Agnico Eagle, 2018), noise impacts were assessed by comparing modeled Project sound levels at the noise local study area (LSA) boundary (5 km from the Project footprint) with Permissible Sound Levels from AER Directive 038 (40 dBA night-time, 50 dBA daytime). Since all the regular monitoring locations for the Whale Tail site are located well within the noise LSA (closer to project infrastructure), monitoring results are not compared to the PSL at this time. In accordance with noise mitigation measures listed in the FEIS Addendum (Volume 3, Appendix 3-C, Table 3-C-1), periodic far-field monitoring will be conducted at the LSA boundary to validate modeling and confirm adherence with the PSL. This far-field monitoring is currently scheduled for 2022, to coincide with the anticipated year of maximum production and maximum sound emissions, as indicated in the FEIS Addendum.

Table 3. FEIS predictions and target sound levels for the Meadowbank and Whale Tail sites (R1 – R5 predictions from Cumberland, 2005; 2018 & 2019 R6 – R11 predictions from Agnico Eagle, 2016; 2020+ R6 - R11 predictions from Agnico Eagle, 2018).

Location	Monitoring Years	FEIS Prediction $L_{eq\text{-}24h}$ (dBA)	Daytime Target $L_{eq\text{-}daytime}$ (dBA)	Night-time Target $L_{eq\text{-}night\text{-}time}$ (dBA)
R1	2008+	58-63	55	45
R2	2008+	58-63	55	45
R3	2008+	49-53	55	45
R4	2008+	58-63	55	45
R5	2008+	(all 1 hr L_{eq} < 57)	55	45
R6	2018 & 2019	46.0 - 50.3	55	45
	2020+	40.5 - 42.5	55	45
R7	2018 & 2019	45.1 – 50.0	55	45
	2020+	36.2 - 40.4	55	45
R8	2018 - 2021	40.4 - 45.1	55	45
R8a	2022+	36.2 – 40.4	55	45
R9	2018 & 2019	36.2 - 40.4	55	45
	2020 & 2021	40.4 - 45.1	55	45
R9a	2022+	40.4 - 45.1	55	45
R10	2018 - 2021	45.1 – 50.0	55	45
R10a	2022+	36.2 – 40.4	55	45
R11	2018 - 2020	45.1 – 50.0	55	45
R11a	2021+	45.1 – 50.0	55	45

SECTION 3 • RESULTS

3.1 R1

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R1 are shown in Figure 3 and 4. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R1, 23 h of valid data were available from the first monitoring event (July 4 - 7), and 49 h were filtered out due to recorded weather conditions or set-up/take-down. For the second monitoring event (August 23 - 26), 29 h of valid data were available after 36 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required for either event.

Final calculated daytime, night-time, and 24-h L_{eq} values are provided in Table 4. No exceedances of site noise targets or FEIS predictions occurred.

Weather data and hourly L_{eq} values for all noise monitoring events are provided in Appendix B.

Noise sources noted in the field log at this location include AWAR traffic, ongoing activities at the nearby emulsion plant, and aircraft (Appendix C).

Table 4. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R1. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R1	7/04	*55*	36.2	*45*	35.4	*58 - 63*	35.8
	8/23		37.6		35.7		36.7

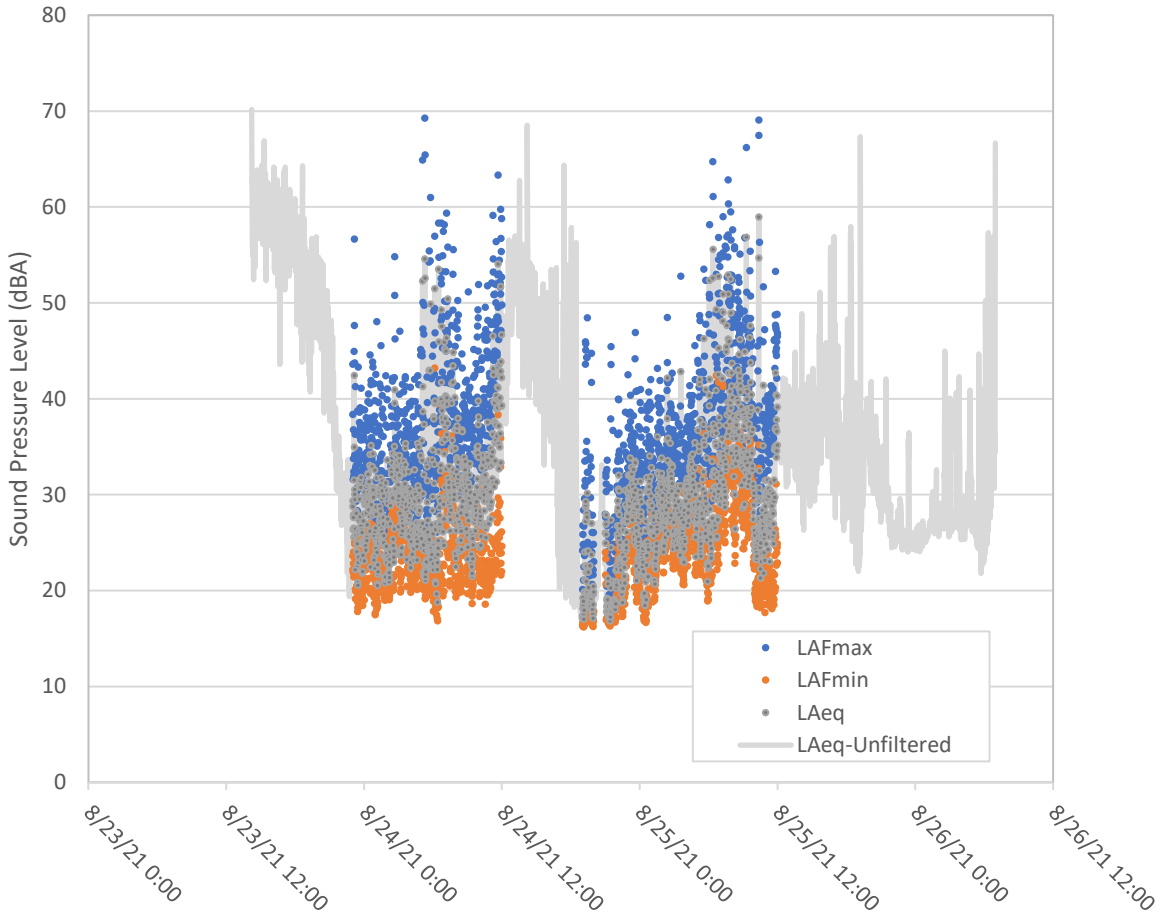


Figure 3. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R1 at the Meadowbank site during monitoring event 1.

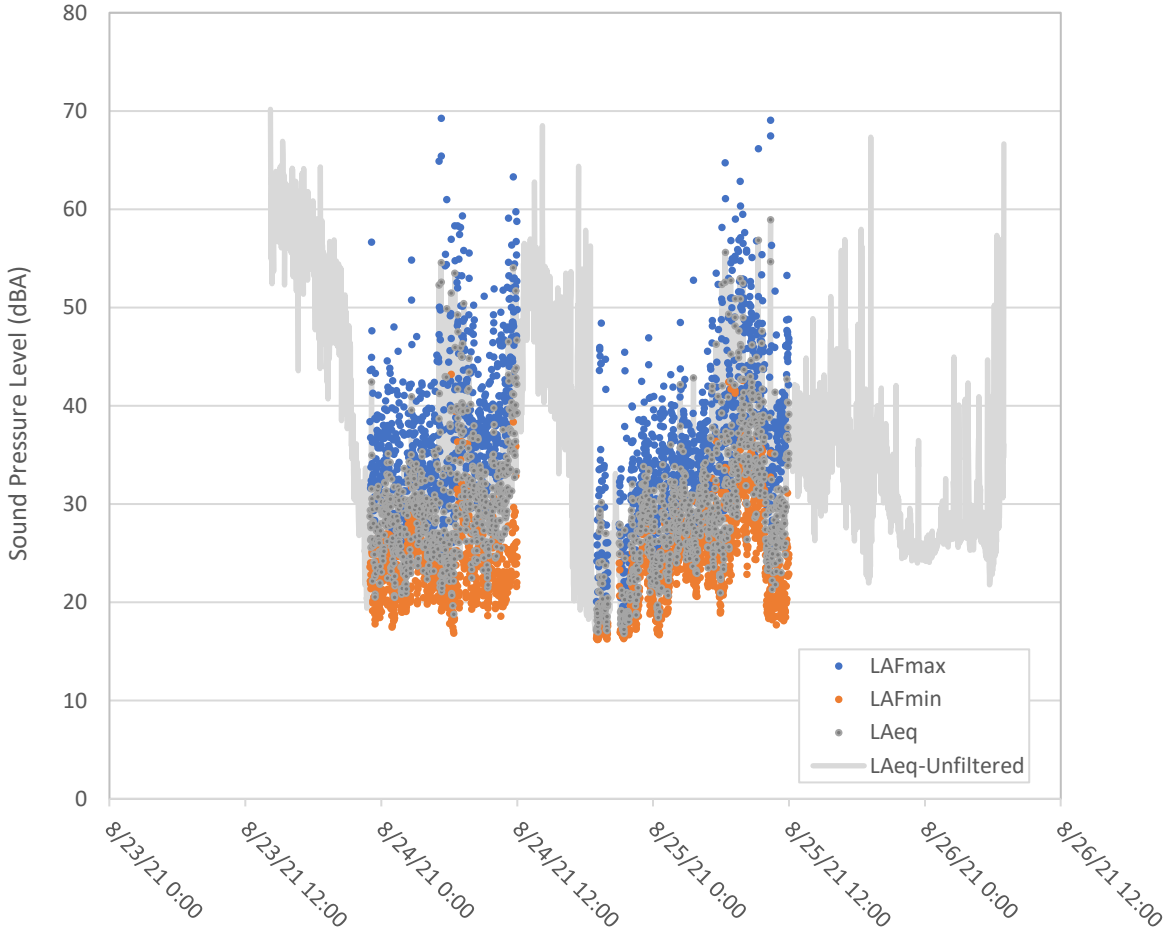


Figure 4. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R1 at the Meadowbank site during monitoring event 2.

3.2 R2

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R2 are shown in Figure 5 and 6. Invalid data points filtered out prior to data analyses (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R2, 43 h of valid data were available from the first monitoring event (July 8 - 10). For this event, 13 h were filtered out due to recorded weather conditions or set-up/take-down. For the second monitoring event (August 14 - 16), 21 h of valid data were available after 27 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was performed for either event but sound files were reviewed for event 2 to identify sources contributing to noise peaks in excess of site design targets, as described below.

Final calculated daytime, night-time, and 24-h L_{eq} values for each monitoring event are provided in Table 5. No exceedances of FEIS predictions occurred. The night-time site design target (45 dBA) was

marginally exceeded (45.5 dBA) for event 2, so sound files and data were further reviewed. The exceedance was caused by intermittent helicopter activity during the 6 am – 7 am hour of August 15. Four helicopter fly-overs occurred during this time, each lasting 1-3 minutes and causing recorded 1-min L_{eq} values of up to 69 dBA. Since the exceedance was marginal (0.5 dBA) and only occurred during one event, it was not considered further.

Weather data and hourly L_{eq} values for all noise monitoring events are provided in Appendix B.

Noise sources noted in the field log at this location include road and helicopter traffic (Appendix C).

Table 5. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R2. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R2	7/08	*55*	50.3	*45*	29.3	*58 - 63*	48.5
	8/14		43.3		**45.5**		44.2

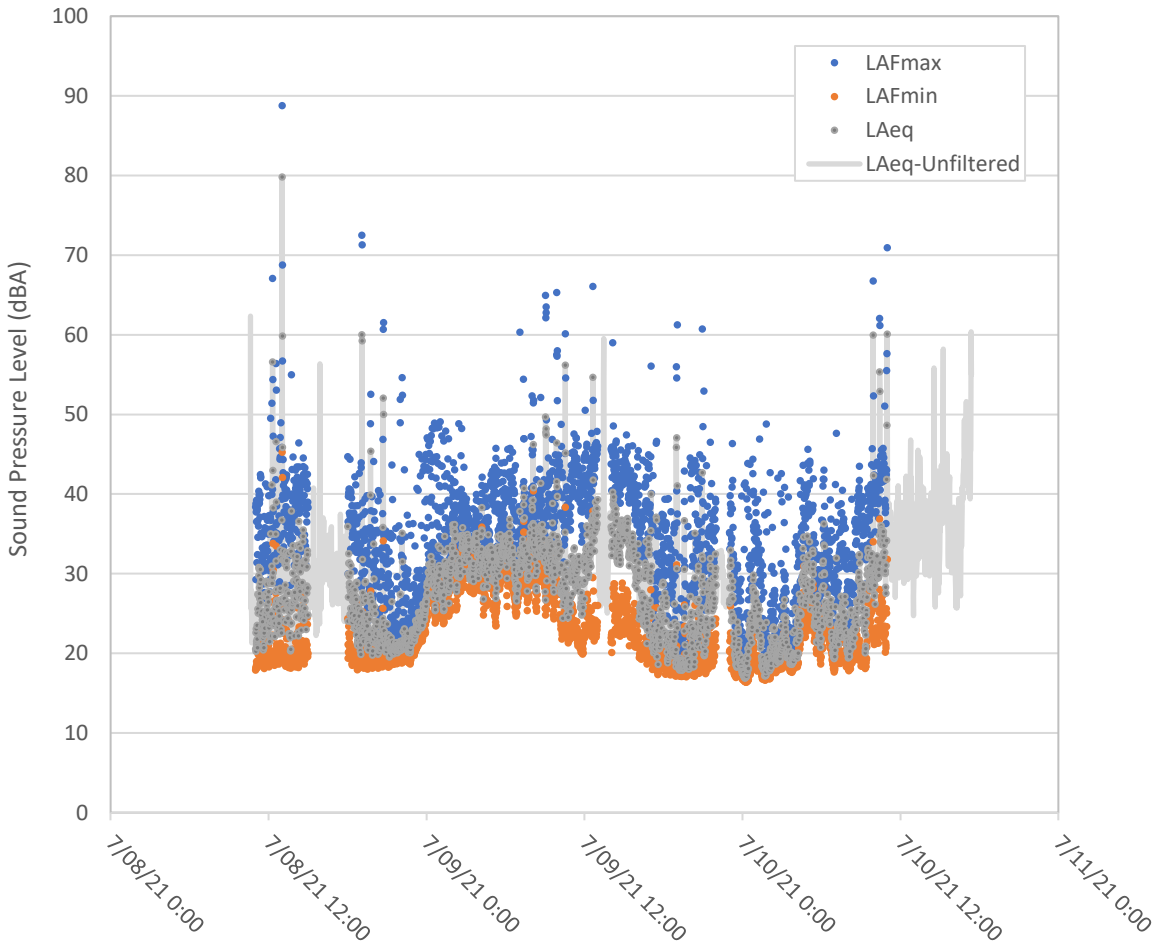


Figure 5. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R2 at the Meadowbank site during monitoring event 1.

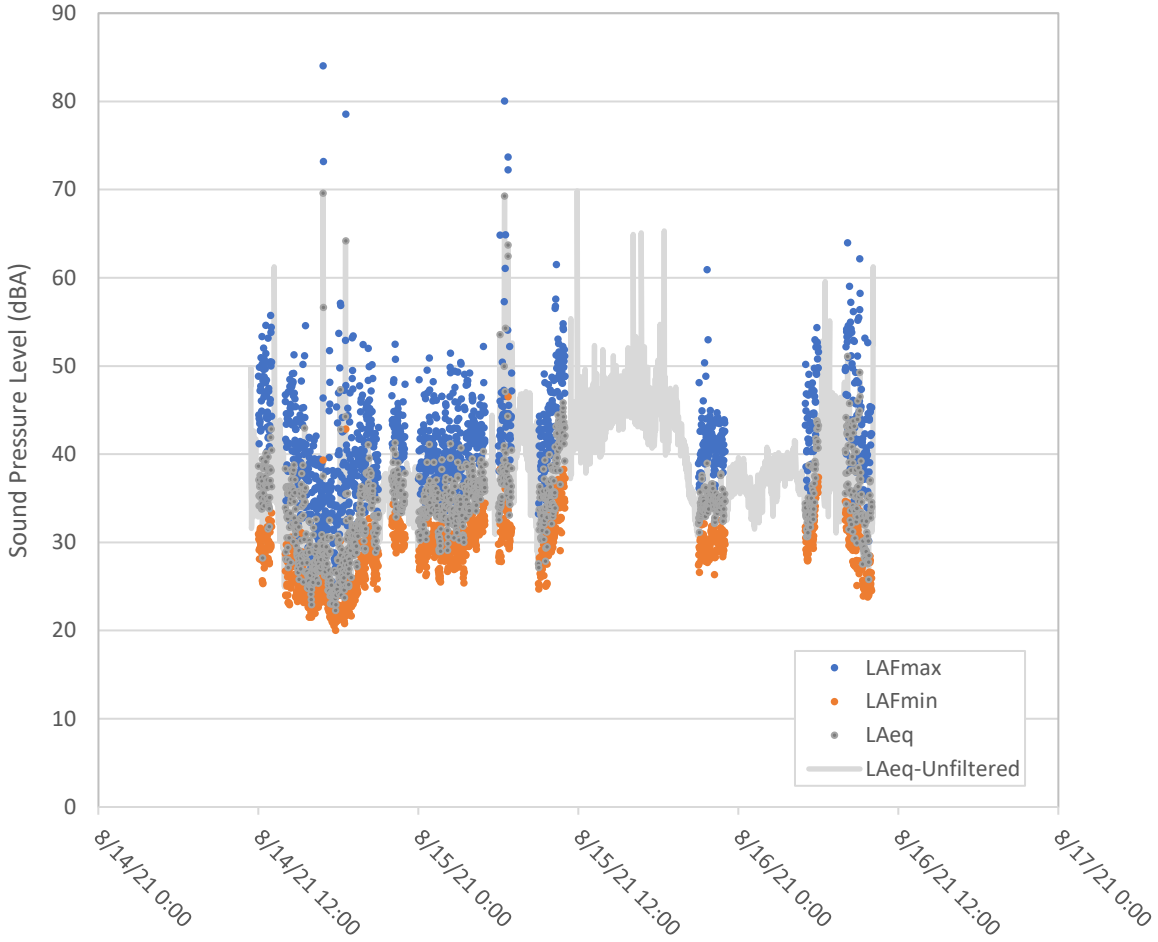


Figure 6. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R2 at the Meadowbank site during monitoring event 2.

3.3 R3

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R3 are shown in Figure 7 and 8. Invalid data points filtered out prior to data analyses (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station the first monitoring event at R3 (August 26 - 29), 41 h of valid data were available after 33 h were filtered out due to recorded weather conditions or set-up/take-down. For the second monitoring event (September 3 – 6), 33 h of valid data were available after 33 h were filtered out. No secondary filtering was required for either event.

Final calculated daytime, night-time, and 24-h L_{eq} values for each monitoring event are provided in Table 6. No exceedances of FEIS predictions or site noise targets occurred.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Audible noises noted in the field log at this location include mine traffic and air traffic (Appendix C).

Table 6. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R3. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R3	8/26	*55*	36.7	*45*	35.0	*49 - 53*	36.1
	9/03		37.8		36.4		37.4

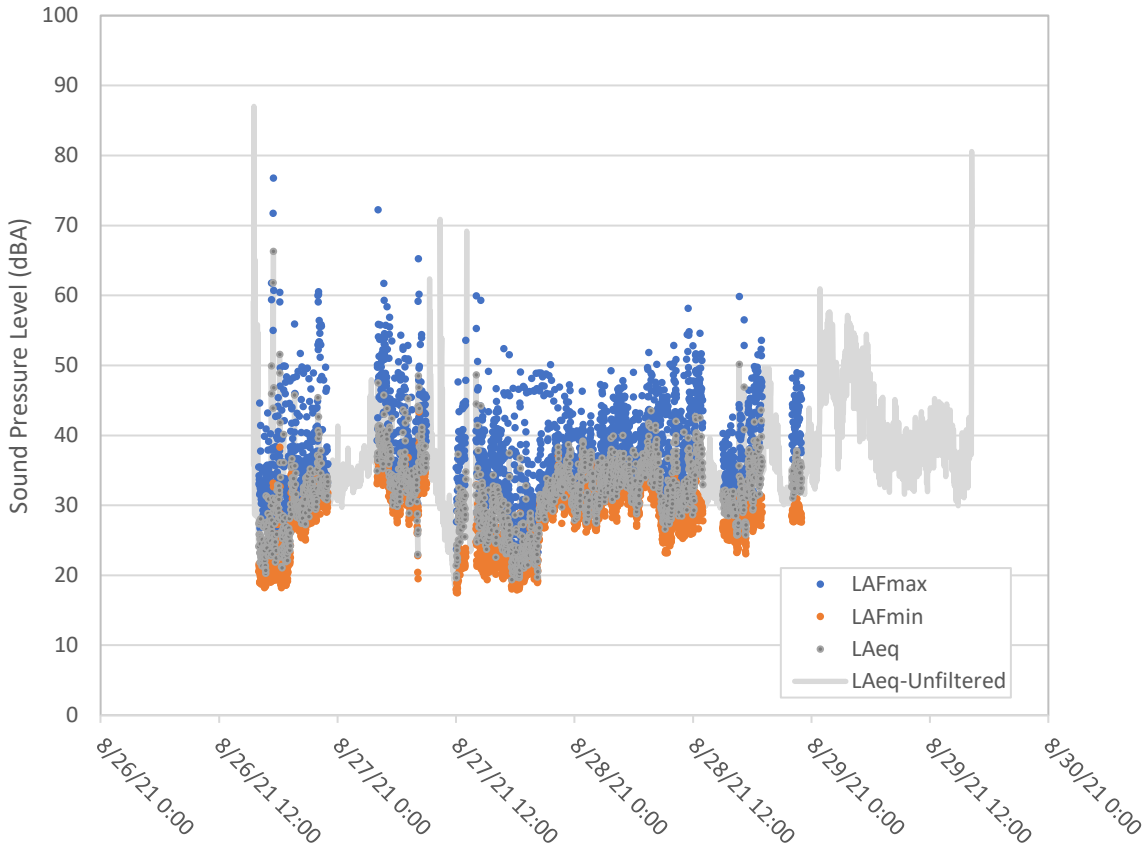


Figure 7. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R3 at the Meadowbank site during monitoring event 1.

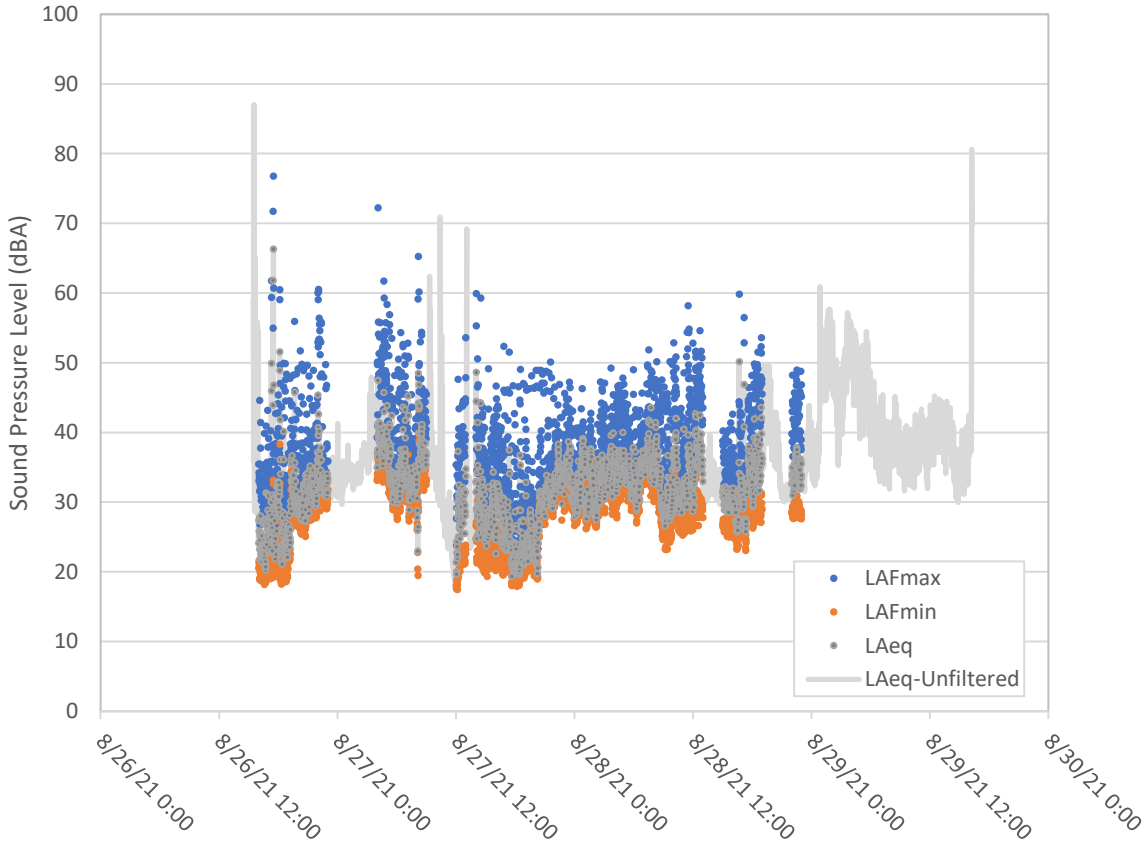


Figure 8. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R3 at the Meadowbank site during monitoring event 2.

3.4 R4

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R4 are shown in Figure 9 and 10. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R4, 12 h of valid data were available from the first monitoring event (July 29 - 31). For this event, 44 h were filtered out due to recorded weather conditions or set-up/take-down. For the second monitoring event (August 31 – September 2), 38 h of valid data were available after 8 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required for either event.

Final calculated daytime, night-time, and 24-h L_{eq} values are provided in Table 7. No exceedances of site noise targets or FEIS predictions occurred. Nighttime and 24-h L_{eq} values were not calculated for event 1, because insufficient valid data was available from the nighttime period.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Noises noted in the field log for this location include waves, mine traffic (road 1 km away), and animals (Appendix C).

Table 7. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R4. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R4	7/29	*55*	34.4	*45*	-	*58 - 63*	-
	8/31		33.9		34.2		34.0

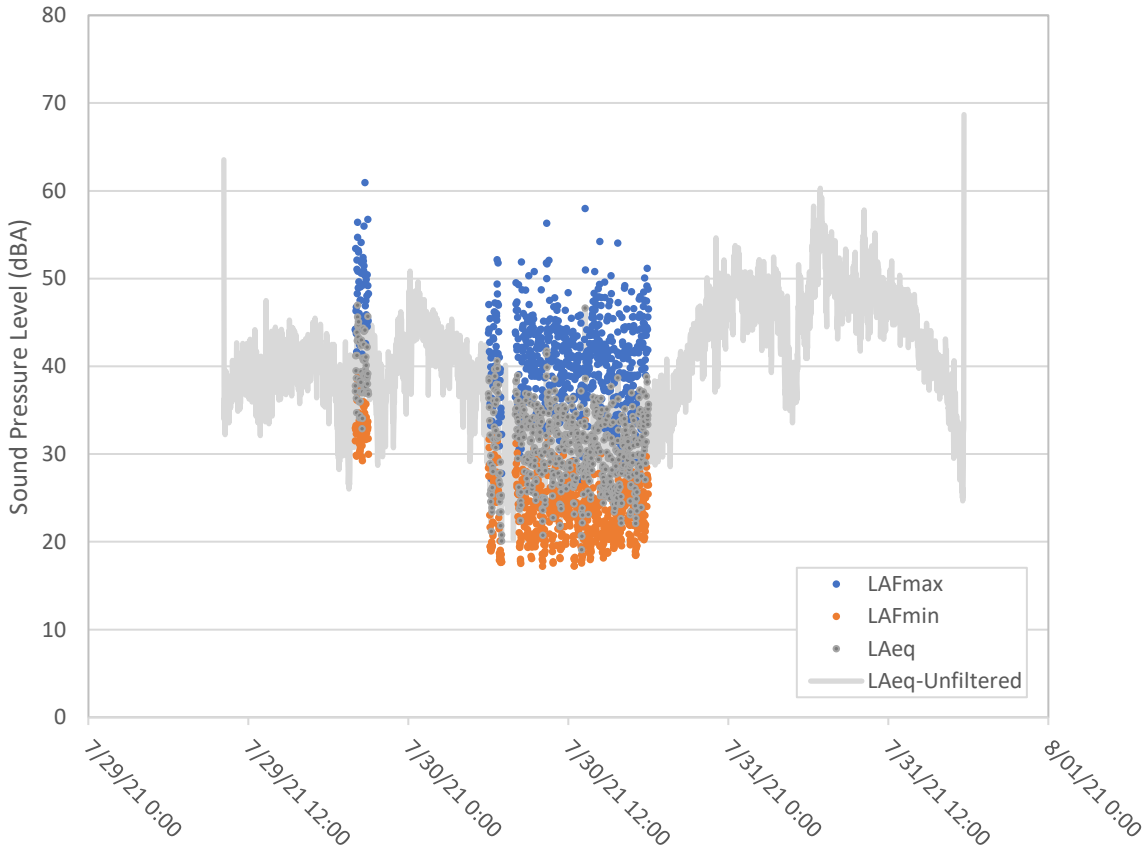


Figure 9. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R4 at the Meadowbank site during monitoring event 1.

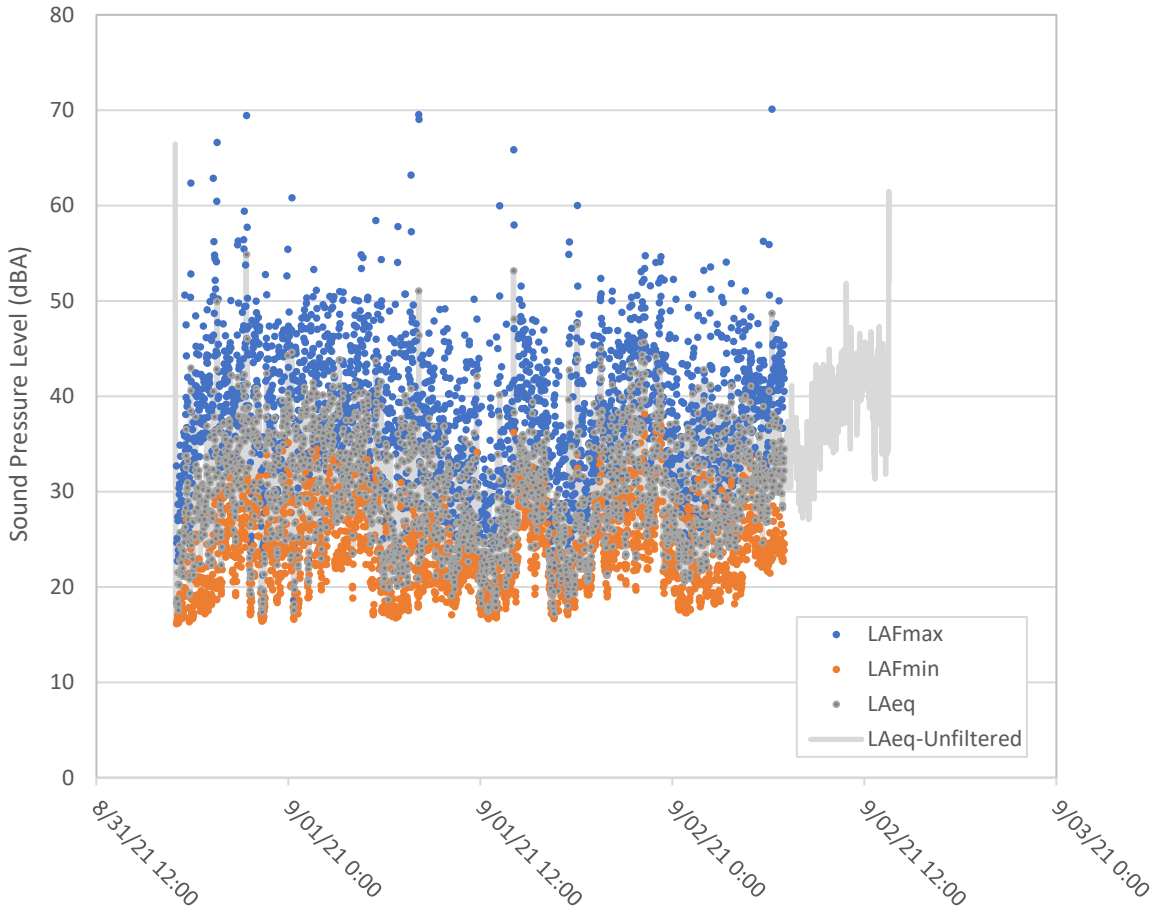


Figure 10. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R4 at the Meadowbank site during monitoring event 2.

3.5 R5

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring event 1 at R5 are shown in Figure 11. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R5, 4 h of valid data were available from the first monitoring event after data processing (July 22 - 24). For this event, 44 h were filtered out due to recorded weather conditions or set-up/take-down. L_{eq} values were not calculated because only 2 h of valid day-time and night-time data were available after data filtering, but all 1-h L_{eq}s are provided in Appendix B. Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Results for event 2 are not shown or analyzed because the noise monitor was found to have fallen over at the end of the survey.

A third survey was attempted but sound pressure levels were not properly recorded and no data was available for analysis.

Audible noises noted in the field log for this location include traffic and animal activity (Appendix C).

Table 8. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R5. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold. NS = no survey results reported (noise meter was found to have fallen over).

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R5	7/22	*55*	-	*45*	-	*1 h L_{eqs} < 57*	-
	8/08		NS		NS		NS
	8/18		NS		NS		NS

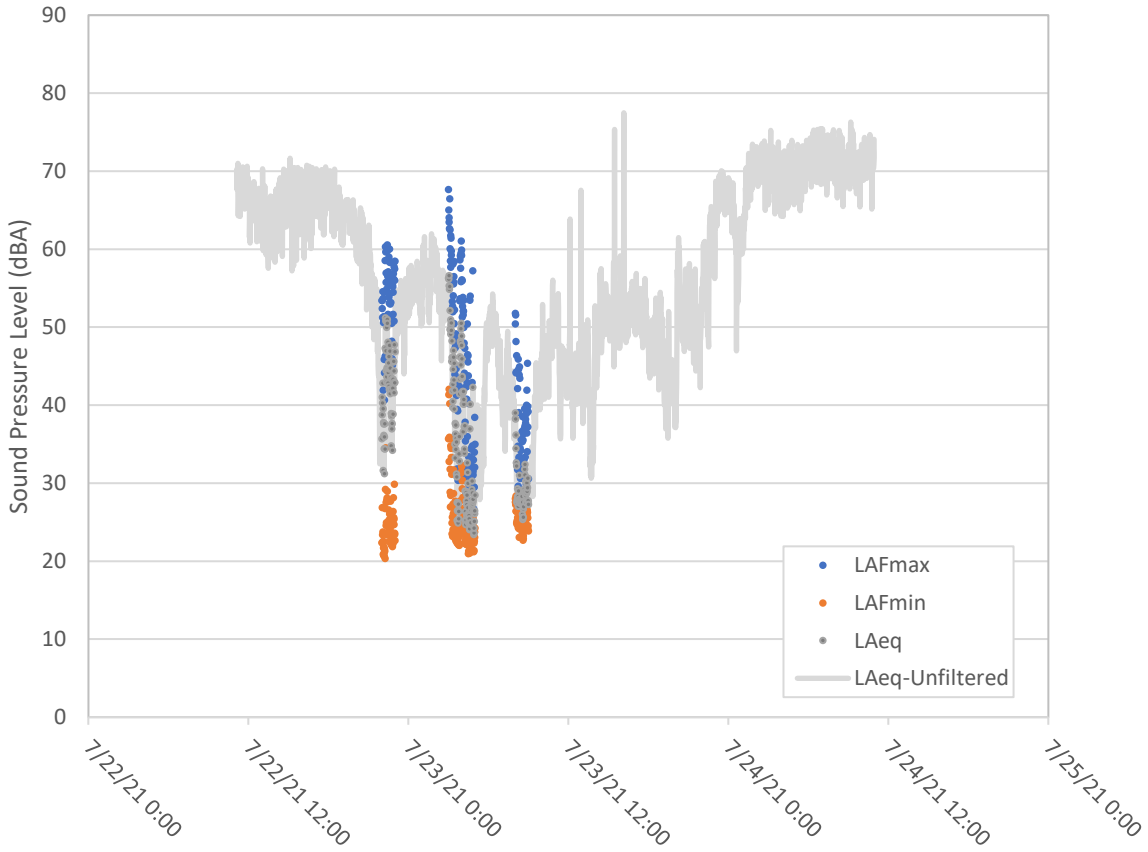


Figure 11. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R5 at the Meadowbank site during monitoring event 1.

3.6 R6

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R6 are shown in Figures 12 and 13. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R6, only 1 h of valid data was available from the first monitoring event (July 26 - 28). For this event, 48 h were filtered out due to recorded weather conditions or set-up/take-down. For the second monitoring event (August 27 - 31), 40 h of valid data were available after 57 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required for either event.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring event 2 are provided in Table 9. Results were not calculated for event 1 since only one hour of valid data was available. No exceedances of site noise targets or FEIS predictions occurred.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Audible noises noted in the field log at this location include traffic (Appendix C).

Table 9. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R6. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R6	7/26	*55*	-	*45*	-	*40.5 - 42.5*	-
	8/27		33.6		35.1		34.2

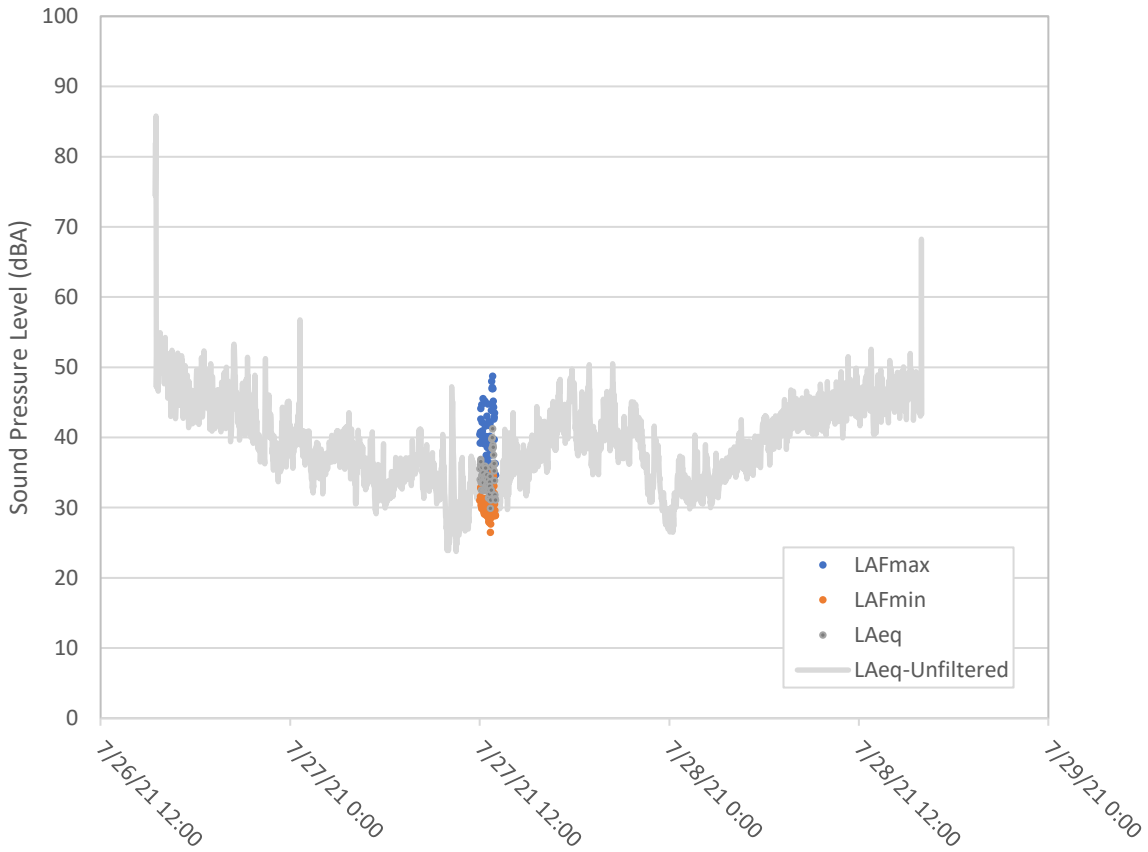


Figure 12. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R6 at the Meadowbank site during monitoring event 1.

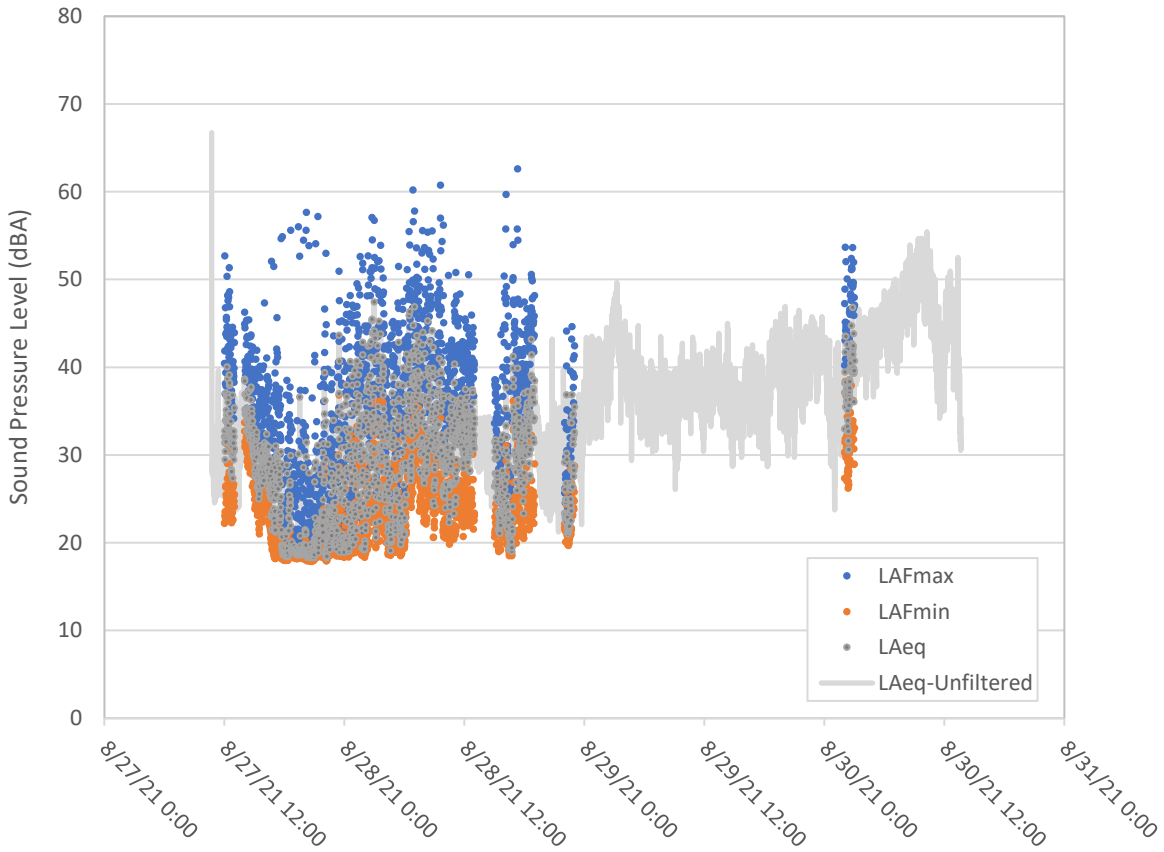


Figure 13. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R6 at the Meadowbank site during monitoring event 2.

3.7 R7

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring event 2 at R7 are shown in Figure 14. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

Results of monitoring event 1 are not shown or analyzed because the noise meter was found to have fallen over after a period of high winds.

For the second monitoring event at R7 (August 23 - 26), 35 h of valid data were available after 34 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring event 2 are provided in Table 10. No exceedances of site noise targets or FEIS predictions occurred.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Audible noises noted in the field log at this location include traffic and a drilling campaign approximately 1 km from the station during event 2 (Appendix C).

Table 10. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R7. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold. NS = no survey results reported (noise meter was found to have fallen over).

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R7	7/26	*55*	NS	*45*	NS	*36.2 - 40.4*	NS
	8/23		39.7		34.3		37.9

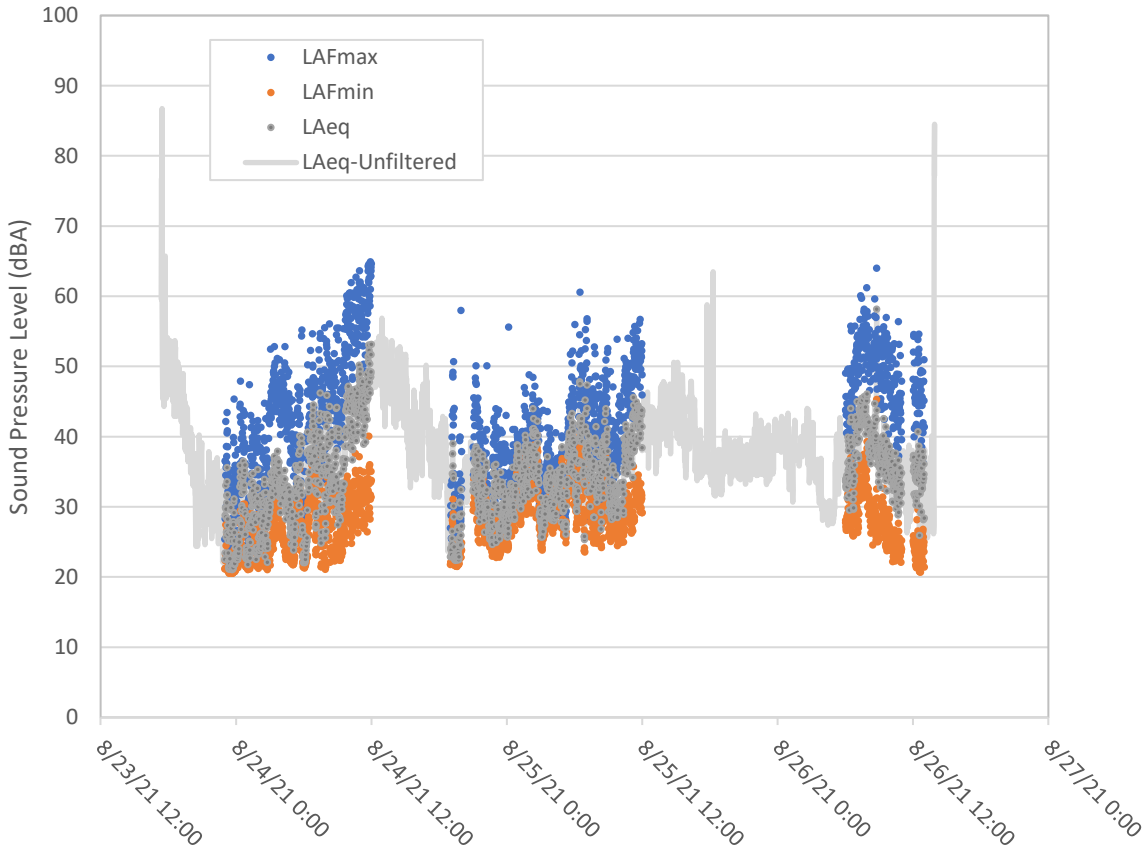


Figure 14. 1-min L_{eq}, Lmax and Lmin values recorded at station R7 at the Meadowbank site during monitoring event 2.

3.8 R8

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1, 2, and 3 at R8 are shown in Figures 15, 16, and 17. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R8, 21 h of valid data were available from the first monitoring event (July 4 - 7). For this event, 42 h were filtered out due to recorded weather conditions or set-up/take-down. While the microphone was found to have slid down in the collar during this noise survey, results are reported since there was no visible impact on the data, and since this monitoring is conducted for the purposes of helping to inform general noise mitigation efforts, rather than an impact assessment or complaint situation.

For the second monitoring event (July 30 – August 2), 20 h of valid data were available after 49 h were filtered out due to recorded weather conditions or set-up/take-down.

For event 3 (September 11 – 13), 34 h of valid data were available after 13 h were filtered out. No secondary filtering was performed for any event.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring events 1, 2, and 3, are provided in Table 11. Results did not exceed the site's day-time and night-time sound targets or FEIS predictions for this monitoring station.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Audible noises were not specifically noted in the field log at this location (Appendix C).

Table 11. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R8. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		**$L_{eq,\ day}$ (dBA)**		**$L_{eq,\ night}$ (dBA)**		**$L_{eq,\ 24h}$ (dBA)**	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R8	7/04	*55*	40.4	*45*	37.8	*40.4 – 45.1*	39.3
	7/30		40.5		40.7		40.6
	9/11		39.9		43.7		41.4

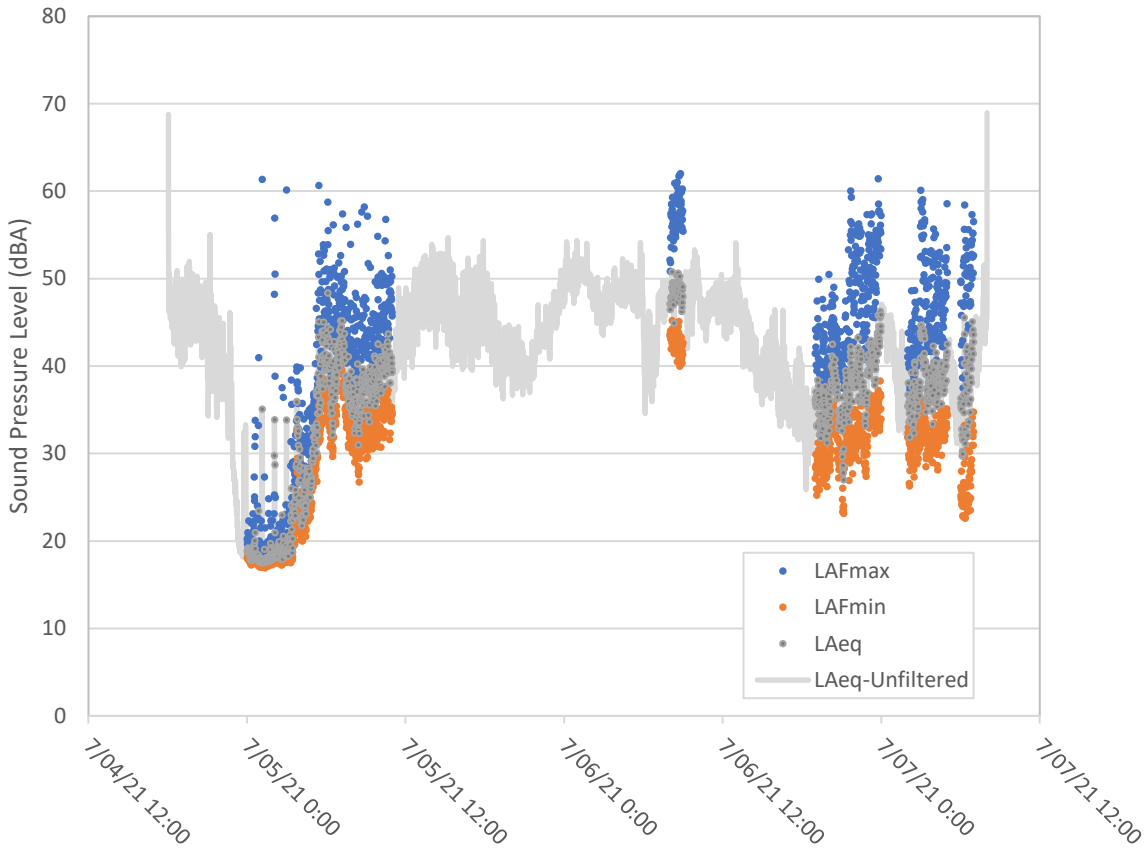


Figure 15. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R8 at the Meadowbank site during monitoring event 1.

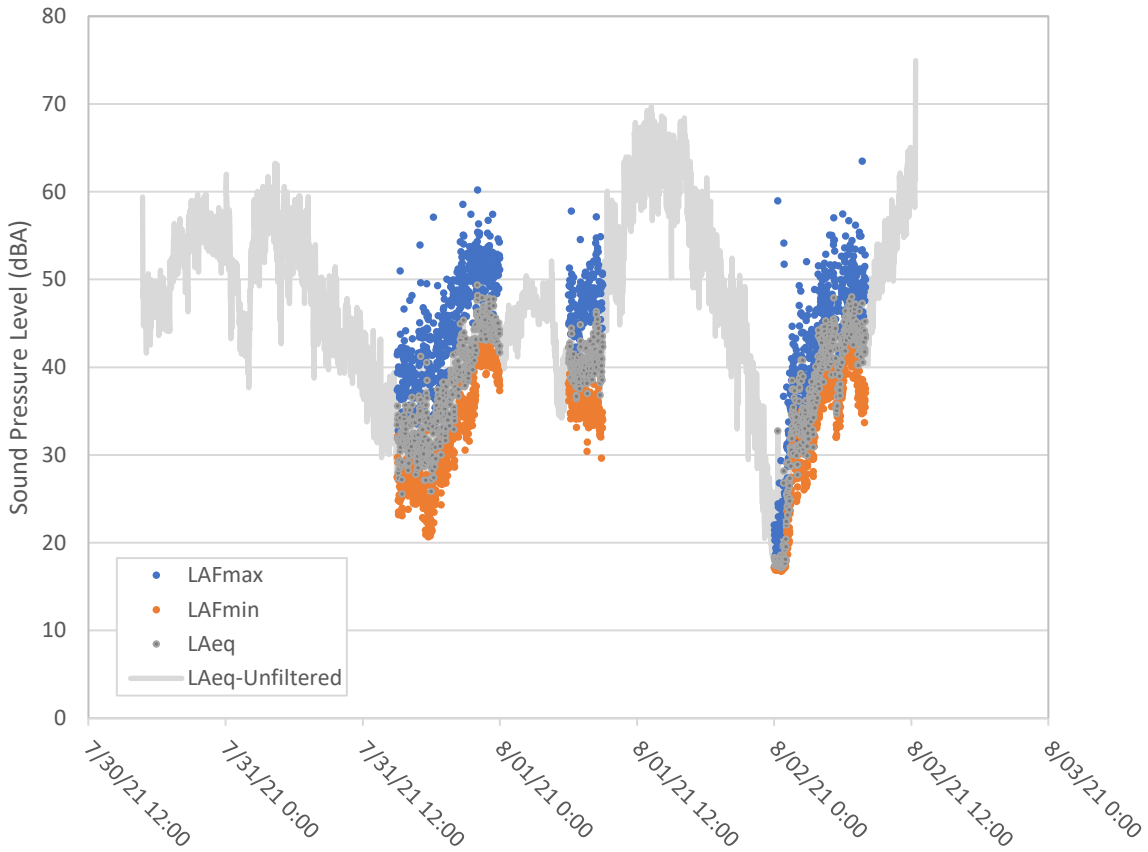


Figure 16. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R8 at the Meadowbank site during monitoring event 2.

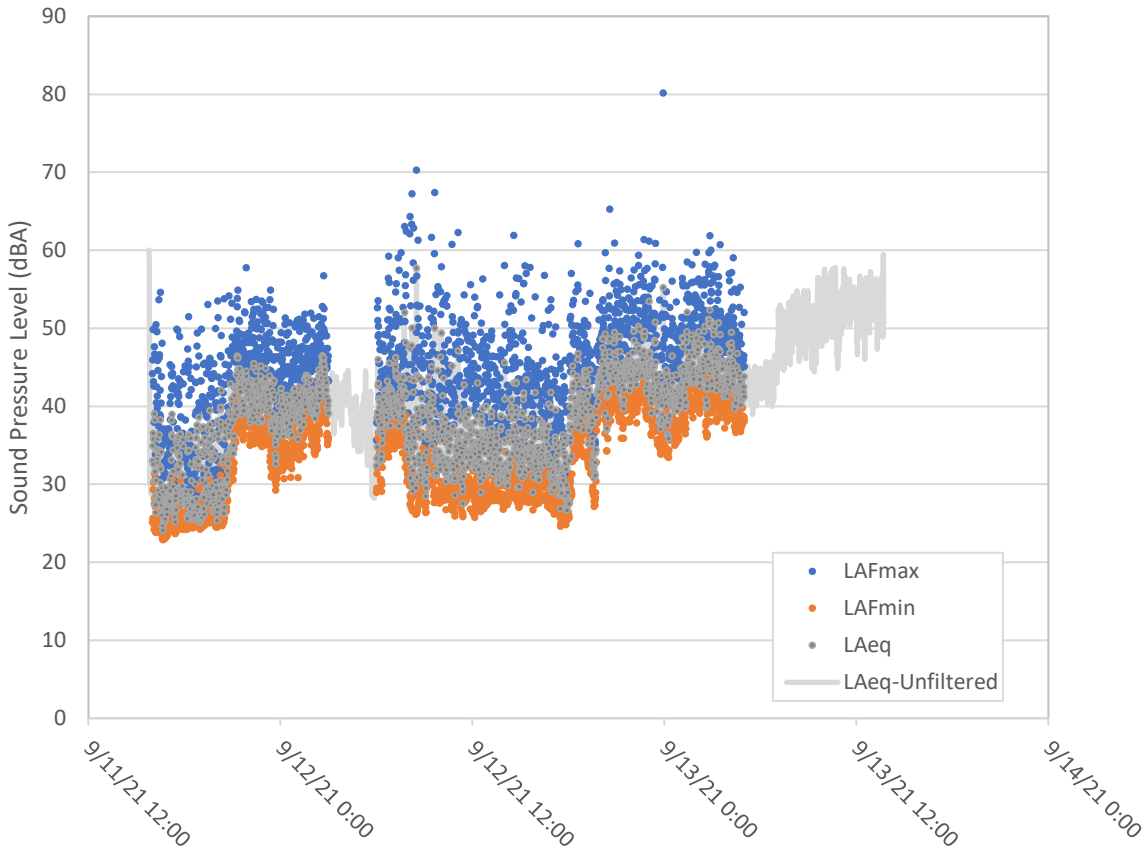


Figure 17. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R8 at the Meadowbank site during monitoring event 3.

3.9 R9

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R9 are shown in Figures 18 and 19. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R9, 15 h of valid data were available from the first monitoring event (July 21 - 23). For this event, 58 h were filtered out due to recorded weather conditions or set-up/take-down.

For the second monitoring event (August 18 - 20), 32 h of valid data were available after 20 h were filtered out due to recorded weather conditions or set-up/take-down. While the microphone was found to have come unclipped during this noise survey, results are reported since there was no visible impact on the data, and since this monitoring is conducted for the purposes of helping to inform general noise mitigation efforts, rather than an impact assessment or complaint situation. No secondary filtering was required for either event.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring events 1 and 2 are provided in Table 12. No exceedances of site noise targets or FEIS predictions occurred.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

No audible noises were specifically noted in the field log for this location except potential helicopter sounds (Appendix C).

Table 12. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R9. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R9	7/21	*55*	39.3	*45*	40.3	*40.4 - 45.1*	39.8
	8/18		34.5		37.0		35.5

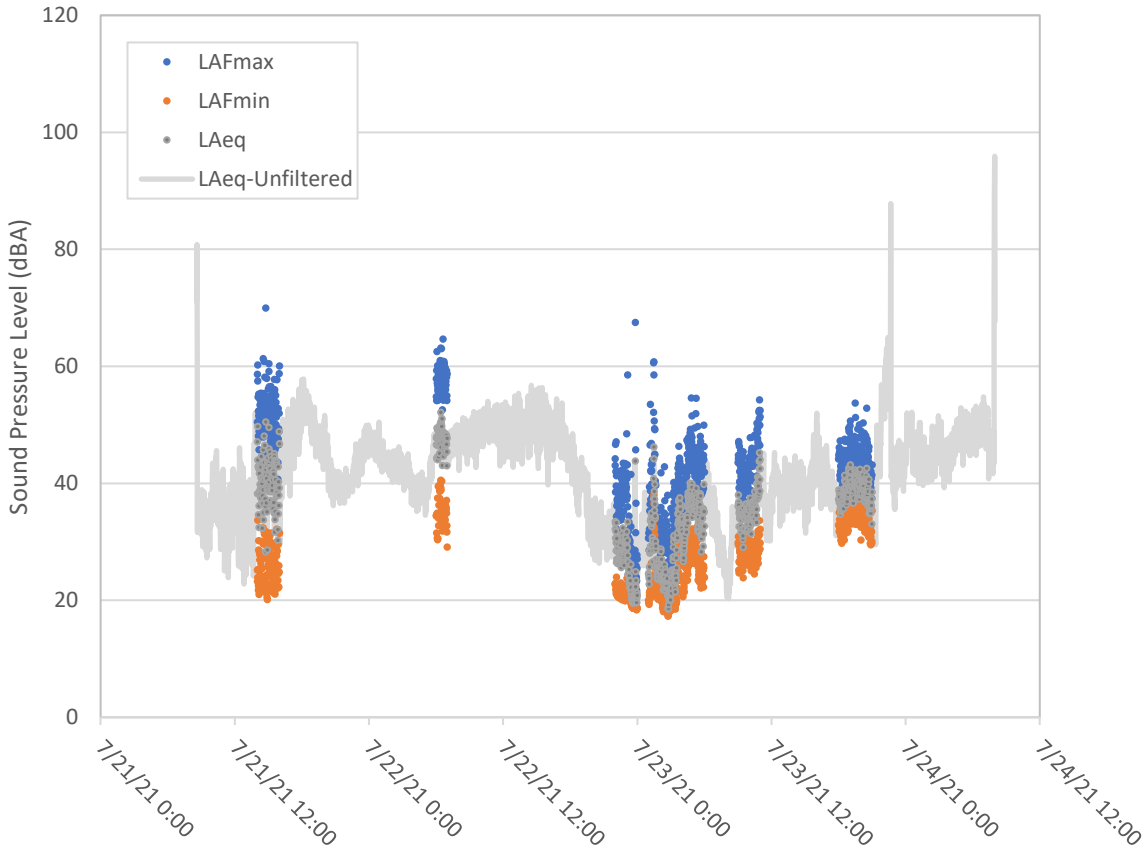


Figure 18. 1-min L_{eq}, Lmax and Lmin values recorded at station R9 at the Meadowbank site during monitoring event 1.

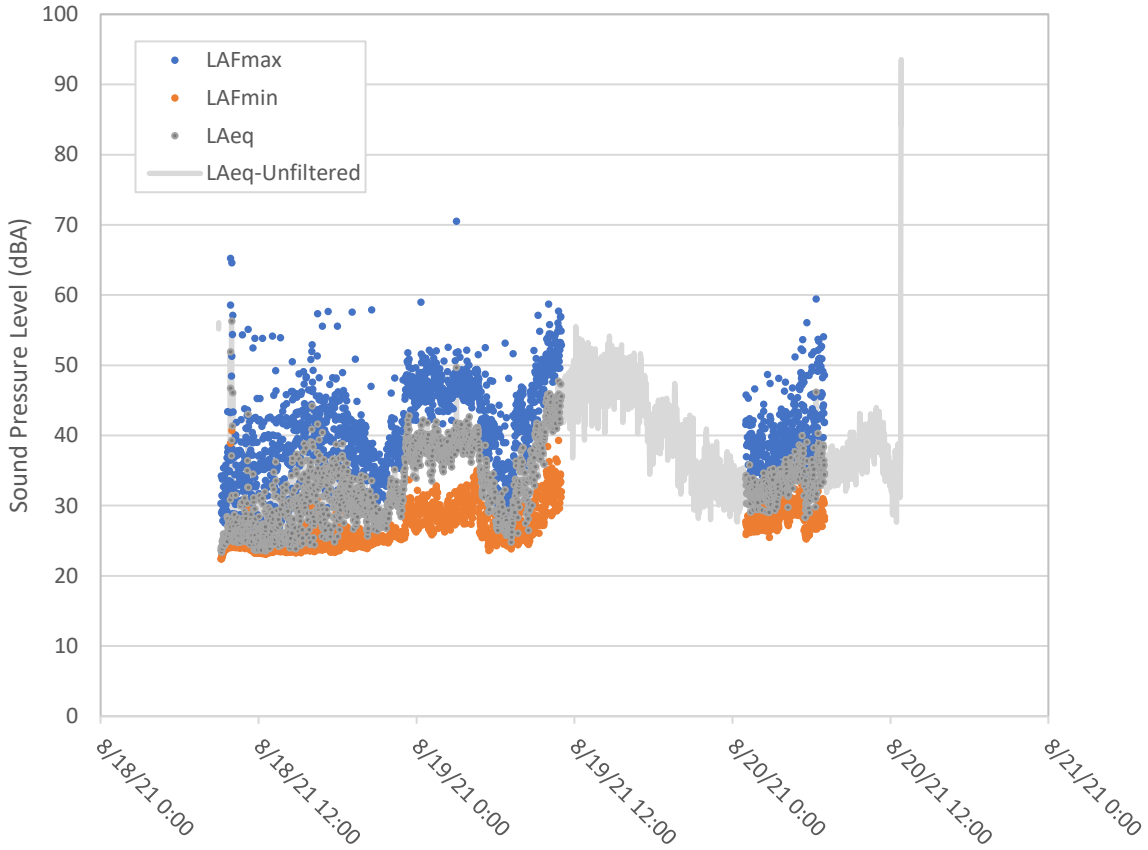


Figure 19. 1-min L_{eq}, Lmax and Lmin values recorded at station R9 at the Meadowbank site during monitoring event 2.

3.10 R10

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R10 are shown in Figures 20 and 21. Invalid data points filtered out prior to data analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For event 1 (July 8 - 10), 42 h of valid data were available after 9 h were filtered out due to recorded weather conditions or set-up/take-down.

For event 2 (August 5 – 7), 14 h of valid data were available after 34 h were filtered out during the primary filtering based on wind speeds and set up/take down. The night-time design target (45 dBA) was initially exceeded (48 dBA) so recorded data and sound files were investigated further. During the available night-time period (8pm – 7am on August 6-7), recorded L90 values (up to 51 dBA) significantly exceeded the baseline assumption of 30 dBA. Wind interference was audible in sound recordings, with no mine-related noise, so 7 h were filtered from the dataset on the basis of localized wind gusts (as indicated in in Appendix B). Remaining available data was used to calculate the daytime L_{eq}, which did not exceed site noise targets. Insufficient valid data was available to calculate night-time or 24-h L_{eq} values.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring events 1 and 2 are provided in Table 13. During event 1 (July 8 – 10), neither the FEIS prediction (50.0 dBA) nor the site target sound levels were exceeded.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

Possible noise sources noted previously in the field logs for this location included traffic (haul road 1.5 km away), helicopters, and wind/rain. None were specifically noted in 2021 (Appendix C).

Table 13. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R10. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq, day}$ (dBA)		$L_{eq, night}$ (dBA)		$L_{eq, 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R10	7/08	*55*	39.5	*45*	43.5	*45.1 – 50.0*	41.3
	8/05		44.2		-		-

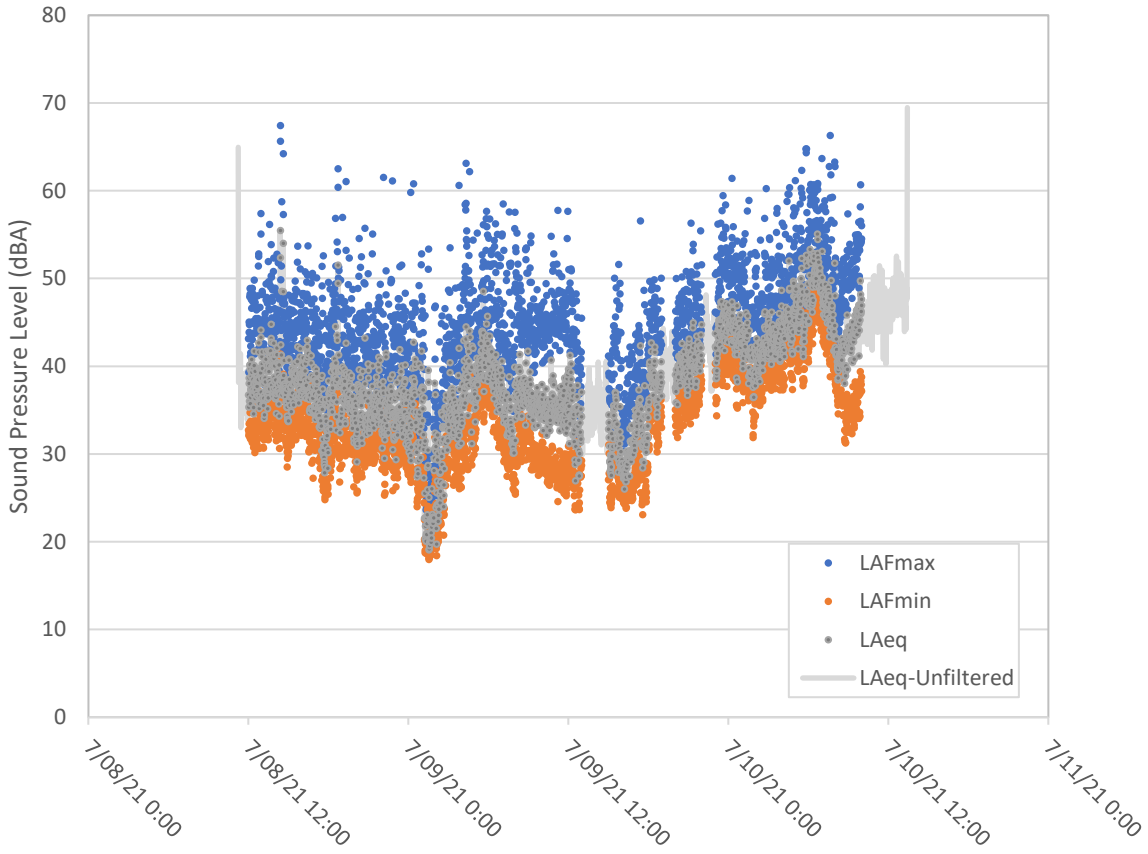


Figure 20. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R10 at the Meadowbank site during monitoring event 1.

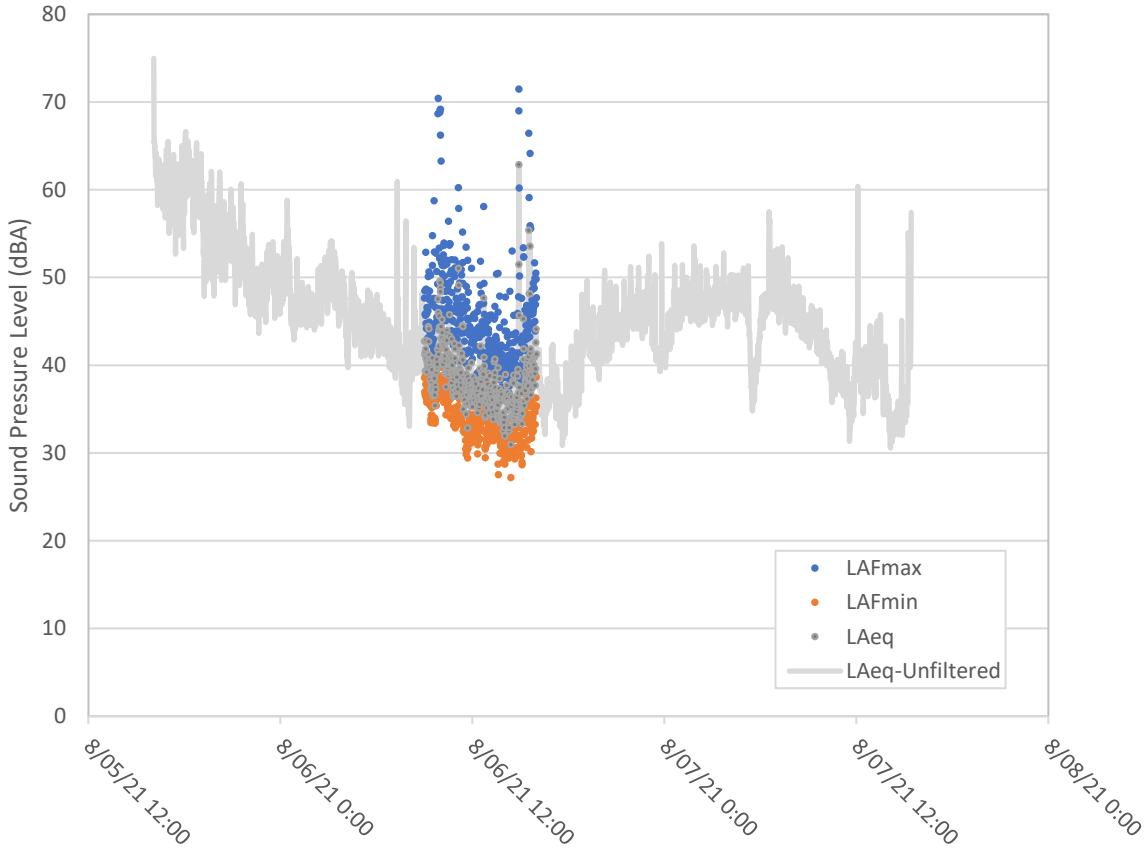


Figure 21. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R10 at the Meadowbank site during monitoring event 2.

3.11 R11

Recorded 1-min L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring events 1 and 2 at R11 are shown in Figures 22 and 23. Invalid data points filtered out prior to subsequent analysis (as described in Section 2.4) are indicated for reference (LA_{eq}-unfiltered).

For station R11, 38 h of valid data were available from the first monitoring event (July 16 - 19) after 37 h were filtered out due to recorded weather conditions or set-up/take-down. For the second monitoring event (August 14 - 16), 46 h of valid data were available after 26 h were filtered out due to recorded weather conditions or set-up/take-down. No secondary filtering was required for either event.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring events 1 and 2 are provided in Section 4. No exceedances of site noise targets or FEIS predictions occurred.

Weather data and hourly L_{eq} values for both events are provided in Appendix B.

No audible noises were specifically noted in the field log for this location (Appendix C).

Table 14. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R11. Periods with fewer than 3 hours of valid data are excluded (-). Measured values exceeding the relevant target or prediction are in bold.

Monitoring Station and Start Date (M/DD)		$L_{eq,\ day}$ (dBA)		$L_{eq,\ night}$ (dBA)		$L_{eq,\ 24h}$ (dBA)	
		Design Target	**Measured Value**	***Design Target***	**Measured Value**	***FEIS Prediction***	**Measured Value**
R11	7/16	*55*	39.5	*45*	27.3	*45.1 – 50.0*	37.4
	8/14		34.8		35.3		35.0

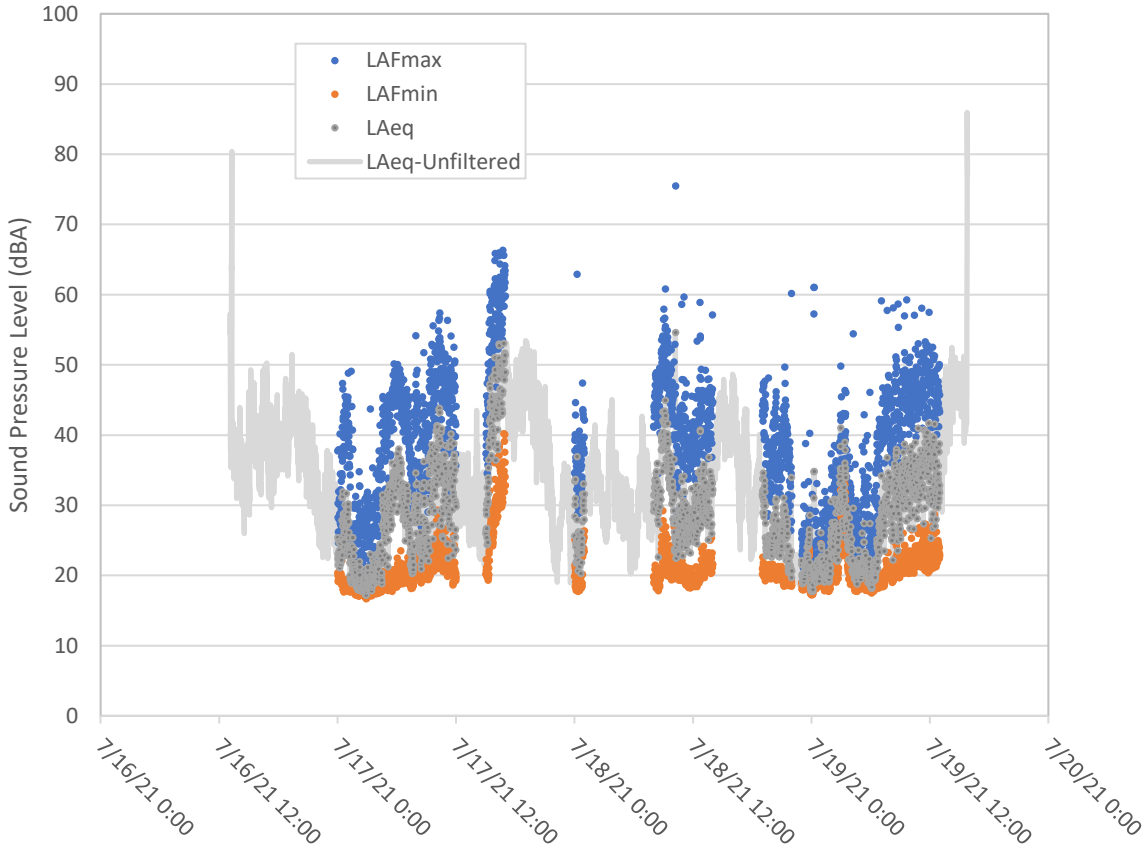


Figure 22. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R11 at the Meadowbank site during monitoring event 1.

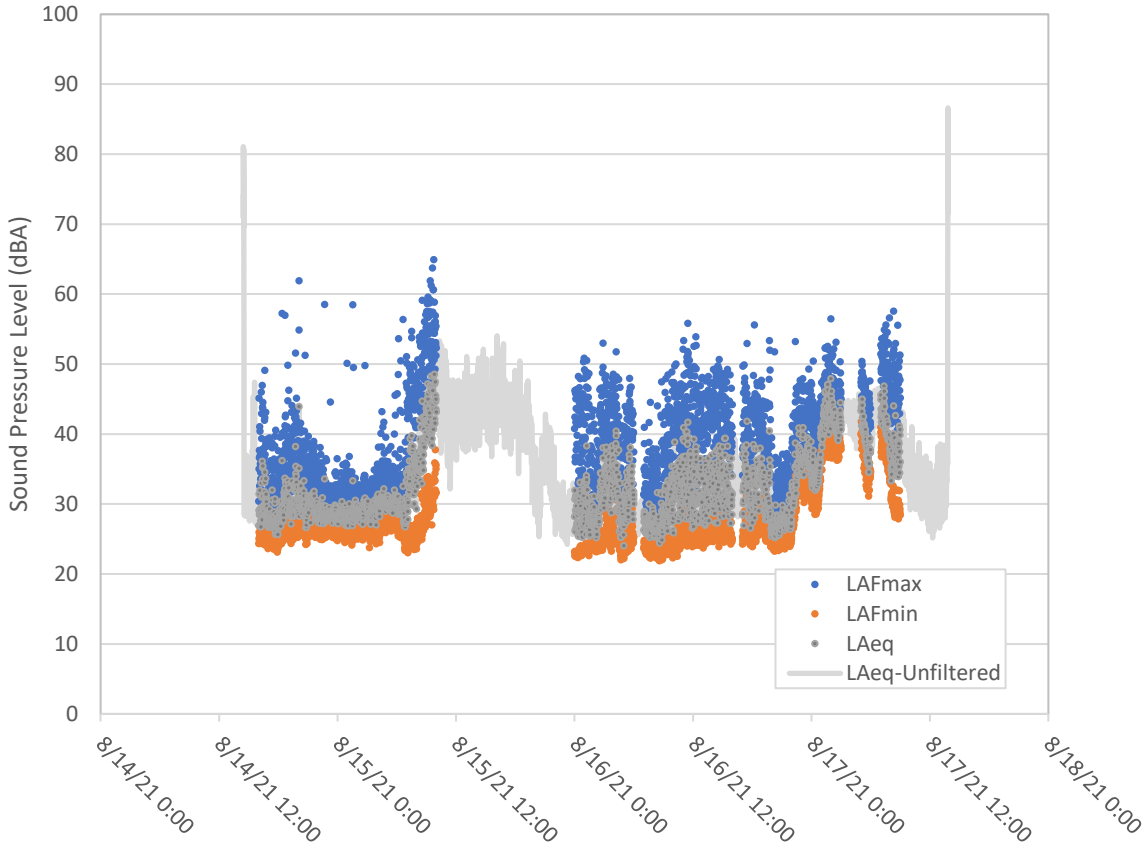


Figure 23. 1-min L_{eq}, L_{max} and L_{min} values recorded at station R11 at the Meadowbank site during monitoring event 2.

SECTION 4 • HISTORICAL SUMMARY

4.1 MEADOWBANK SITE

Historical 24-h L_{eq} measurements (2009 – 2021) for Meadowbank area monitoring stations R1 – R5 are shown in Figures 24 - 28 in relation to FEIS (Cumberland, 2005) predictions.

No clear trends towards increasing noise levels are evident. For all sites except one instance at R4 in 2018, measured 24-h L_{eq} values have remained below predictions.

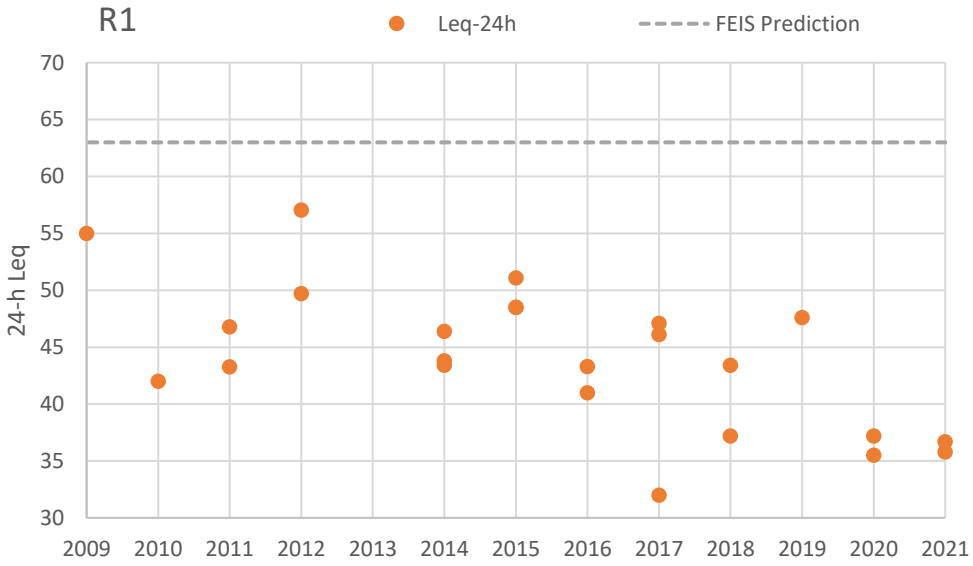


Figure 24. Historical 24-h L_{eq} values for monitoring station R1 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction.

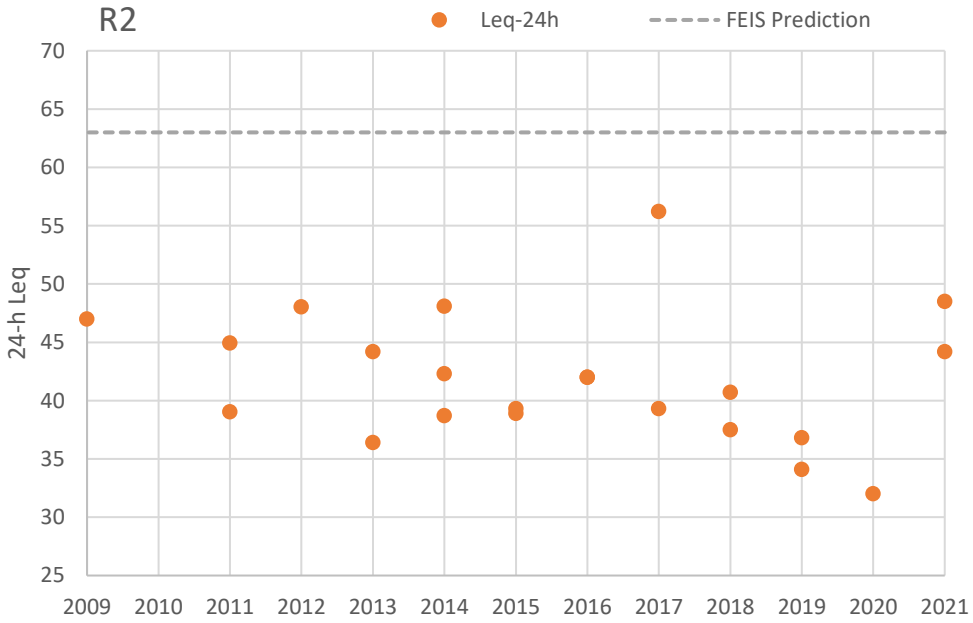


Figure 25. Historical 24-h L_{eq} values for monitoring station R2 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction.

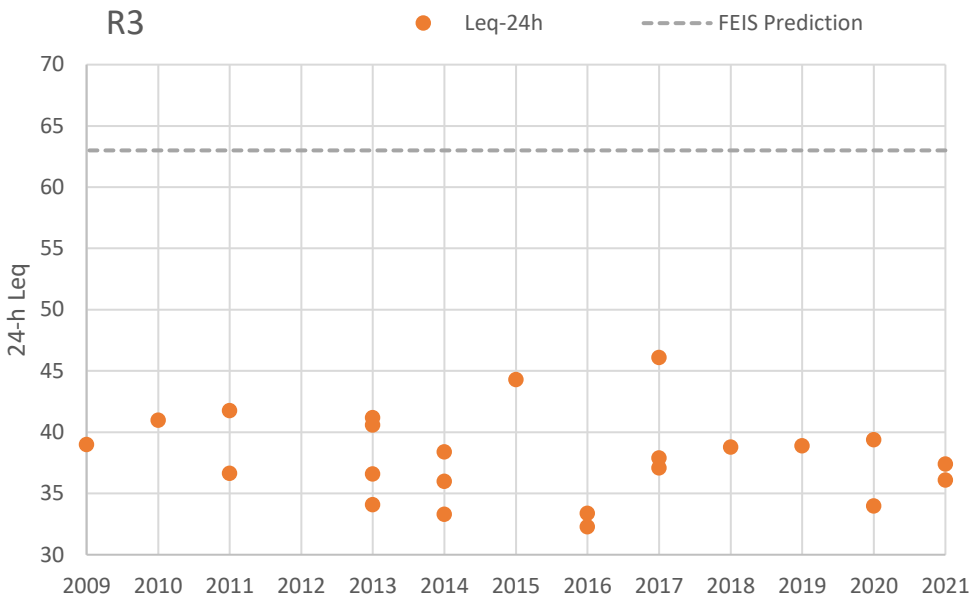


Figure 26. Historical 24-h L_{eq} values for monitoring station R3 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction.

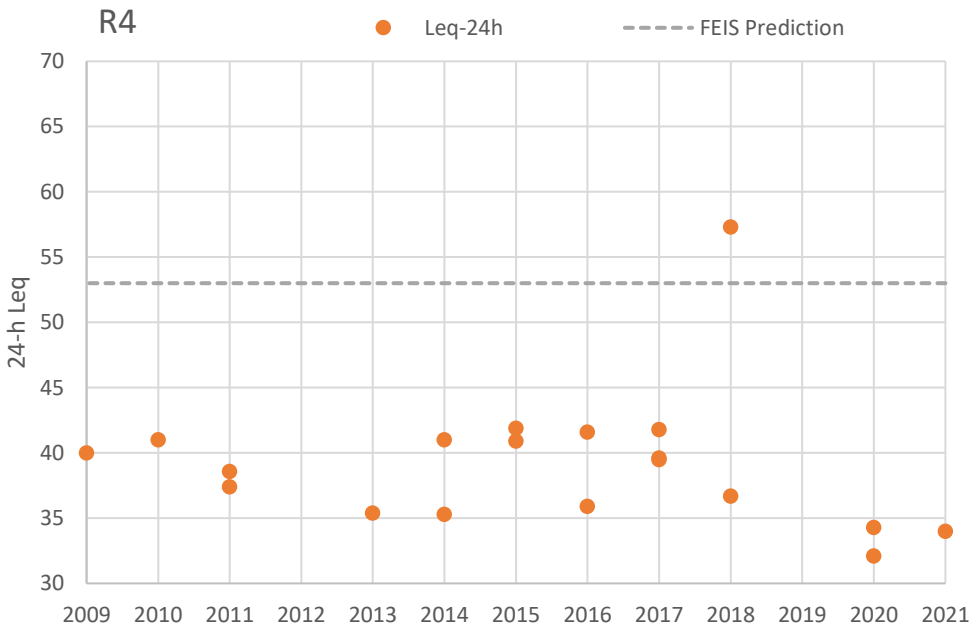


Figure 27. Historical 24-h L_{eq} values for monitoring station R4 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction.

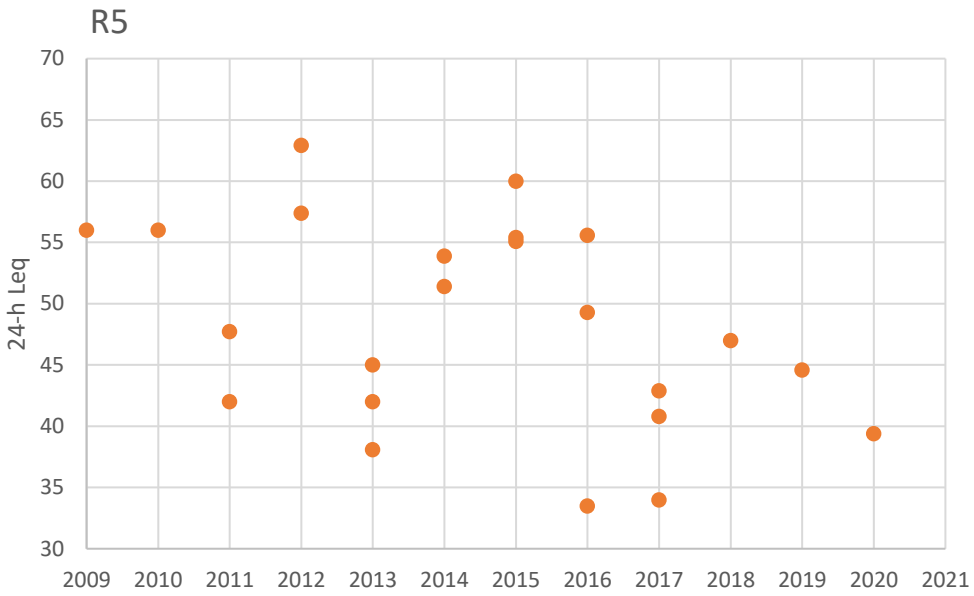


Figure 28. Historical 24-h L_{eq} values for monitoring station R5 at the Meadowbank site. No FEIS prediction for the 24-h L_{eq} was available. No valid surveys were obtained in 2021.

4.2 WHALE TAIL SITE

For stations R6 – R11, available historical results are shown in Figures 29 - 34 along with maximum FEIS predictions for 2018/2019 (Agnico Eagle, 2016), and FEIS Addendum predictions for 2020 onwards (Agnico Eagle, 2018). Monitoring data was not available for R7 – R11 in 2019. Overall, no clear trends towards unpredicted noise levels are evident at this time.

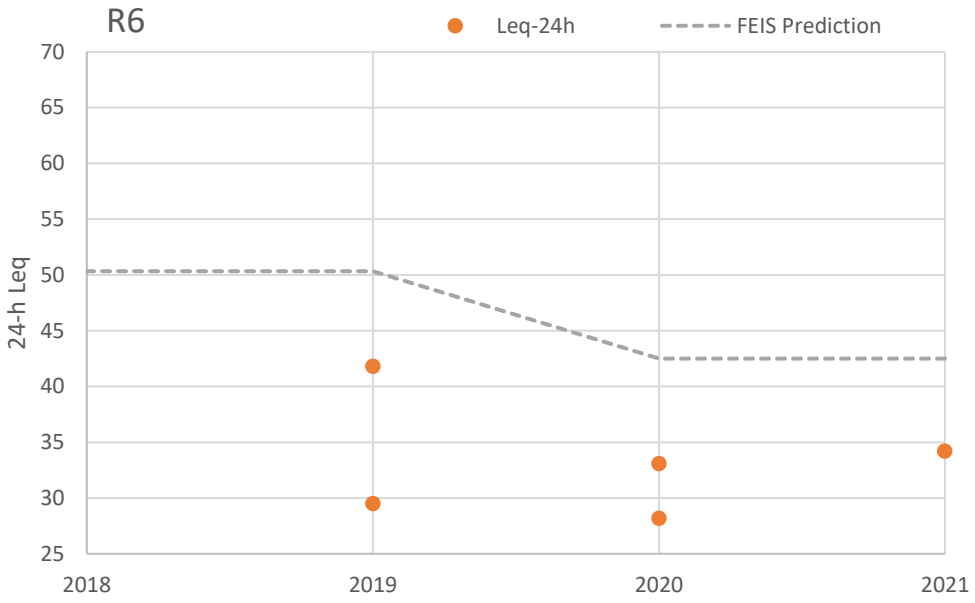


Figure 29. Historical 24-h L_{eq} values for monitoring station R6 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction (2018, 2019 – Agnico Eagle, 2016; 2020+ - Agnico Eagle, 2018).

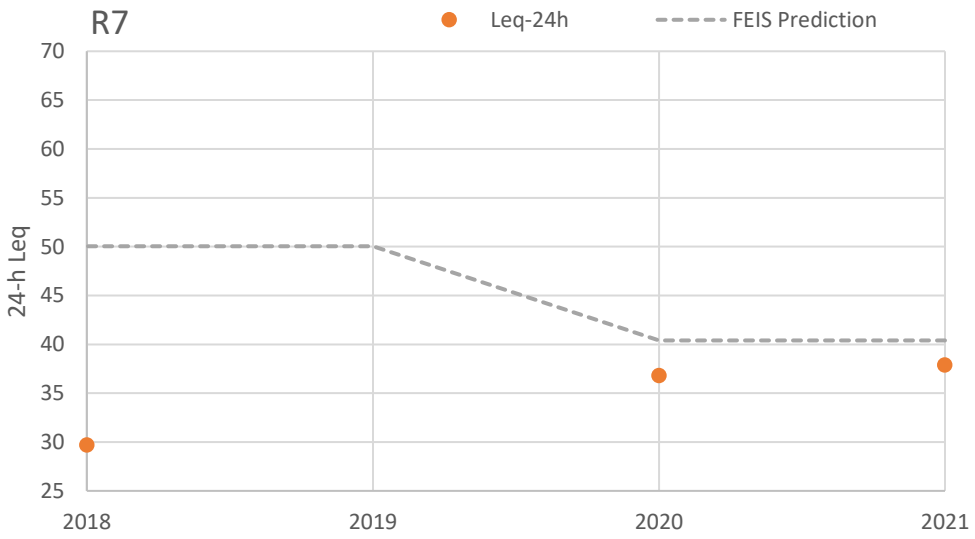


Figure 30. Historical 24-h L_{eq} values for monitoring station R7 along the Whale Tail Haul Road. Dashed line indicates the maximum FEIS prediction (2018, 2019 – Agnico Eagle, 2016; 2020+ - Agnico Eagle, 2018).

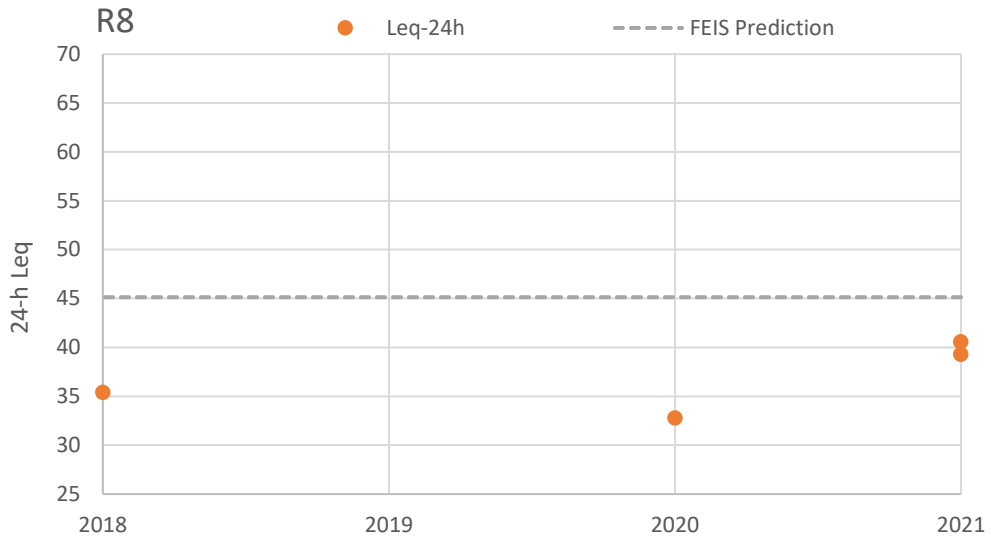


Figure 31. Historical 24-h L_{eq} values for monitoring station R8 at the Whale Tail site. Dashed line indicates the maximum FEIS prediction (2018, 2019 – Agnico Eagle, 2016; 2020+ - Agnico Eagle, 2018). *The FEIS prediction for 2020 was adjusted here compared to the 2020 Noise Monitoring report to reflect the actual monitoring location assessed in that year, as described in Section 1.1.

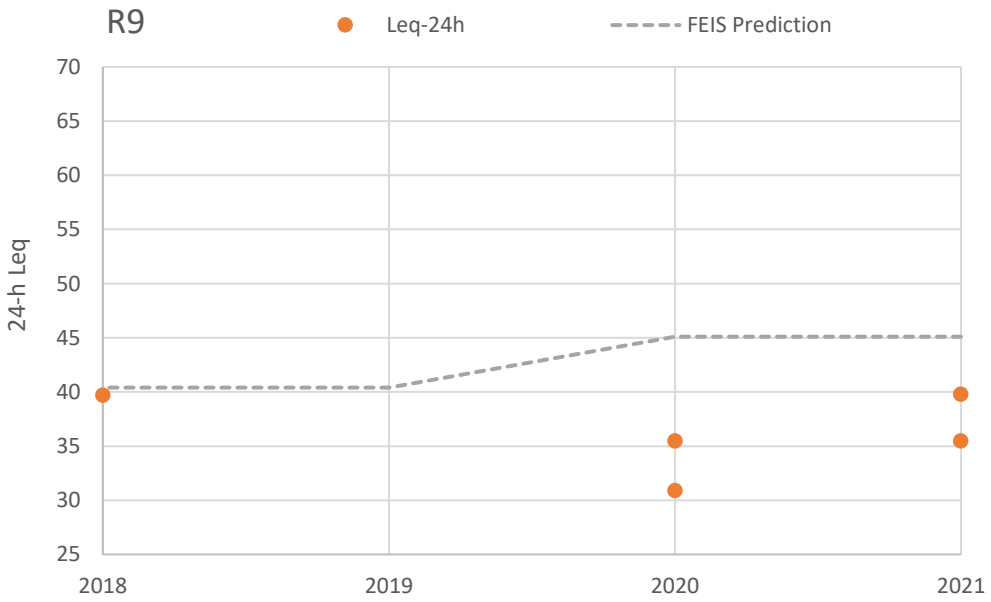


Figure 32. Historical 24-h L_{eq} values for monitoring station R9 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction (2018, 2019 – Agnico Eagle, 2016; 2020+ - Agnico Eagle, 2018). *The FEIS prediction for 2020 was reviewed for the actual monitoring location assessed in that year, as described in Section 1.1, and did not change from the 2020 Noise Monitoring Report.

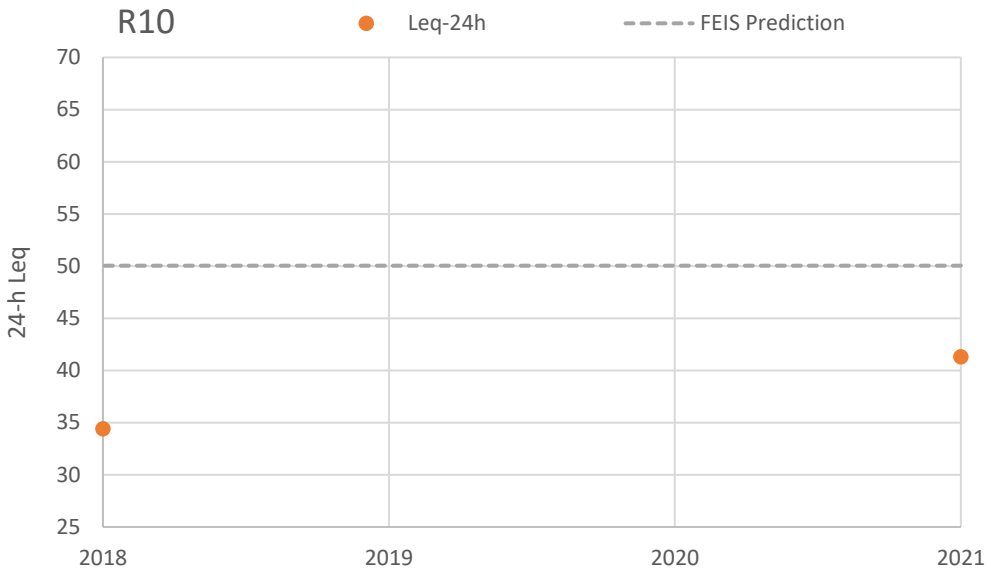


Figure 33. Historical 24-h L_{eq} values for monitoring station R10 at the Whale Tail site. Dashed line indicates the maximum FEIS prediction (2018, 2019 – Agnico Eagle, 2016; 2020+ - Agnico Eagle, 2018). No valid data was available in 2019 or 2020. *The FEIS prediction for 2020 was adjusted here compared to the 2020 Noise Monitoring report to reflect the actual monitoring location assessed in that year, as described in Section 1.1.

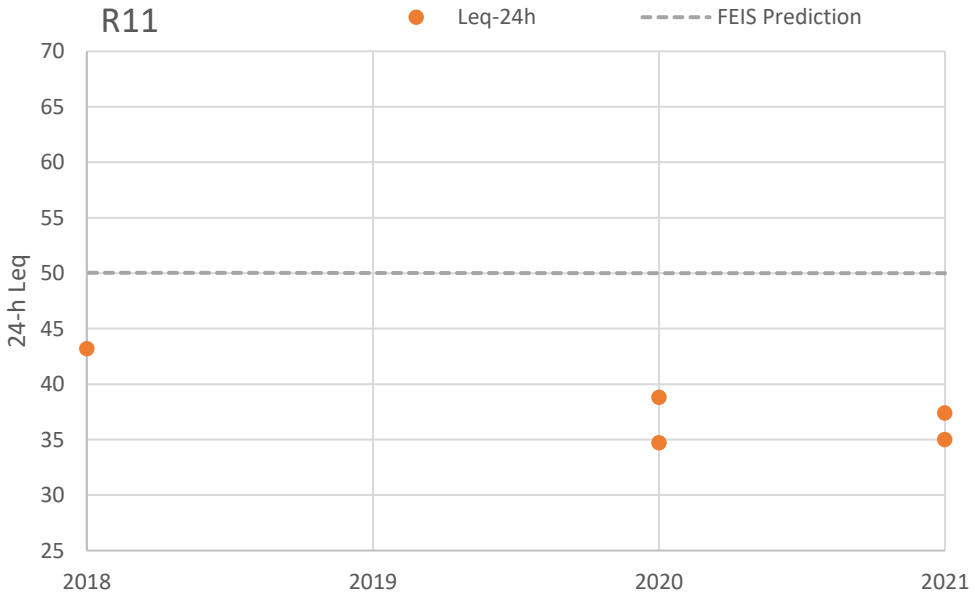


Figure 34. Historical 24-h L_{eq} values for monitoring station R11 (2018 – 2020) and R11a (2021+) at the Whale Tail site. Dashed line indicates the maximum FEIS prediction (2018, 2019 – Agnico Eagle, 2016; 2020+ Agnico Eagle, 2018), which is the same for both R11 and R11a locations.

SECTION 5 • SUMMARY

The objective of the noise monitoring program at Meadowbank is to measure noise levels at 11 previously determined monitoring locations over at least two 24 h periods. Each year, Agnico Eagle aims to conduct a minimum of two monitoring events of two to four days per station, since high winds in the area tend to substantially reduce the quantity of available valid data.

In 2021, two or more surveys were attempted for all stations. Due to operational difficulties (e.g. fallen noise meter), three surveys (two at R5 and one at R7) were voided prior to data processing.

Following removal of datapoints obtained under sub-optimal weather conditions, one or two valid measurements were available for each monitoring period (daytime, night-time, 24 h) for all stations except R5.

No exceedances of the site's day-time design target (55 dBA) or FEIS predictions occurred for any station.

A marginal exceedance of the night-time design target (45 dBA) occurred for one monitoring event at R2 (45.5 dBA) as a result of intermittent helicopter flyovers during the early morning hours (6 – 7 am). Since FEIS predictions were not exceeded, no receptors are located in these areas, and no noise-related complaints have been received, this event was not investigated further. Night-time design targets were not exceeded for any other stations or monitoring events.

Review of historical monitoring results (2009 – 2021, as available) for each station was conducted to determine any trends towards increasing average sound levels around the mine site, in excess of FEIS predictions. No clear trends were observed, and overall, target sound levels and FEIS predictions have rarely been exceeded site-wide during the summertime noise surveys. Elevated wind speeds and snow cover preclude monitoring during the rest of the year, but measurements recorded in July – September are expected to represent the highest noise levels occurring onsite, since general traffic activity is greatest during this period.

Based on these results, no changes to noise abatement or mitigation measures are proposed at this time.

Impacts of sensory disturbance on wildlife are determined through the Terrestrial Ecosystem Monitoring Plan (TEMP), and reported annually in the Wildlife Summary Report.

SECTION 6 • ACTIONS

No specific actions for supplemental adaptive monitoring or management were planned for 2021, and none are identified for 2022.

SECTION 7 • REFERENCES

Cumberland, 2005. Meadowbank Gold Project Environmental Impact Statement. Cumberland Resources Ltd. October, 2005.

AER (Alberta Energy Regulator), 2007. Directive 038: Noise Control.

Agnico Eagle, 2018. Final Environment Impact Statement (FEIS) Addendum - Whale Tail Pit Expansion Project. Volume 4 – Atmospheric Environment. Agnico Eagle Mines Ltd. December, 2018.

Agnico Eagle, 2016. Final Environment Impact Statement (FEIS) for the Whale Tail Pit Project. Volume 4 – Atmospheric Environment. Agnico Eagle Mines Ltd. May, 2016.

APPENDIX A

Site Photos

Figure -Apx 1: Monitoring location R1, looking north (August 23, 2021).

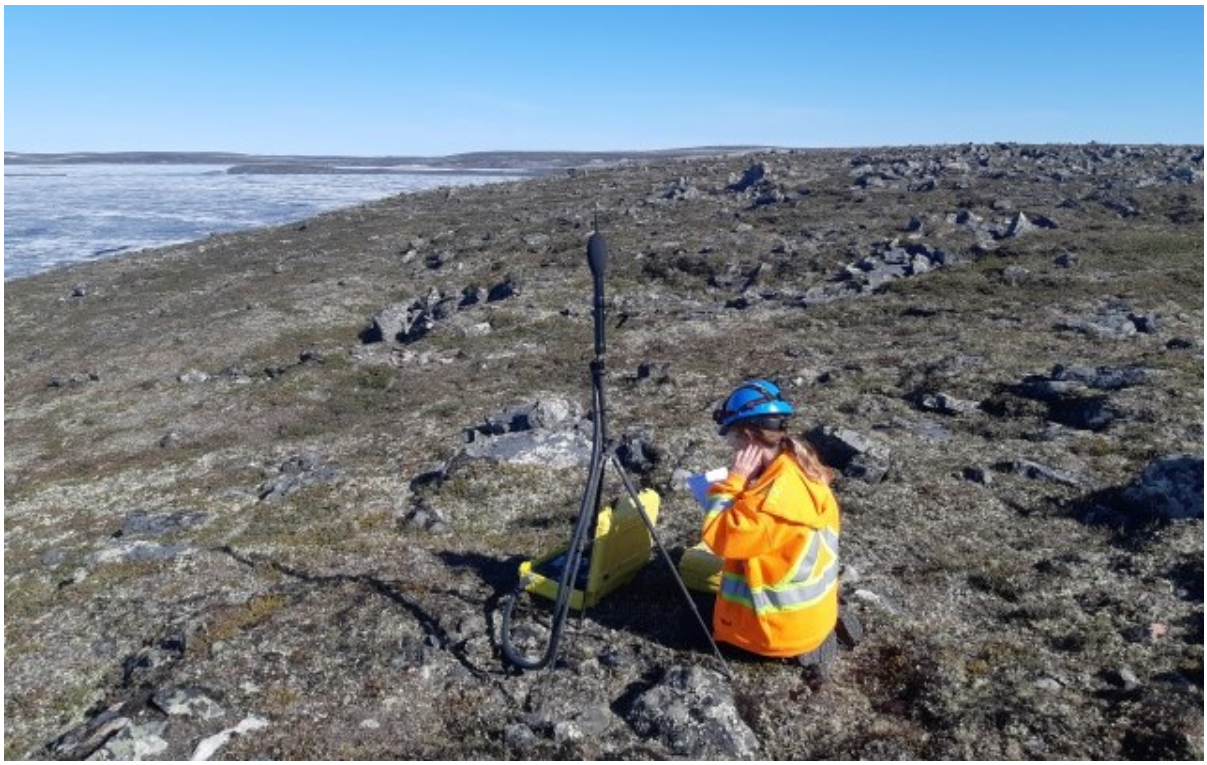


Figure -Apx 2: Monitoring location R2, looking north (July 8, 2021).

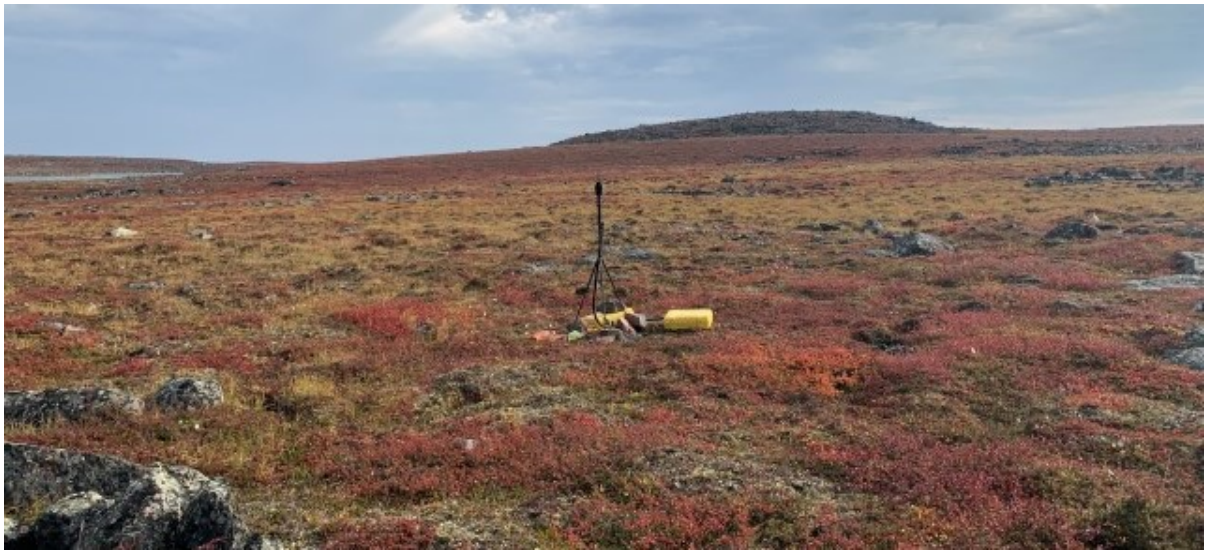


Figure -Apx 3: Monitoring location R3, looking south (August 26, 2021).

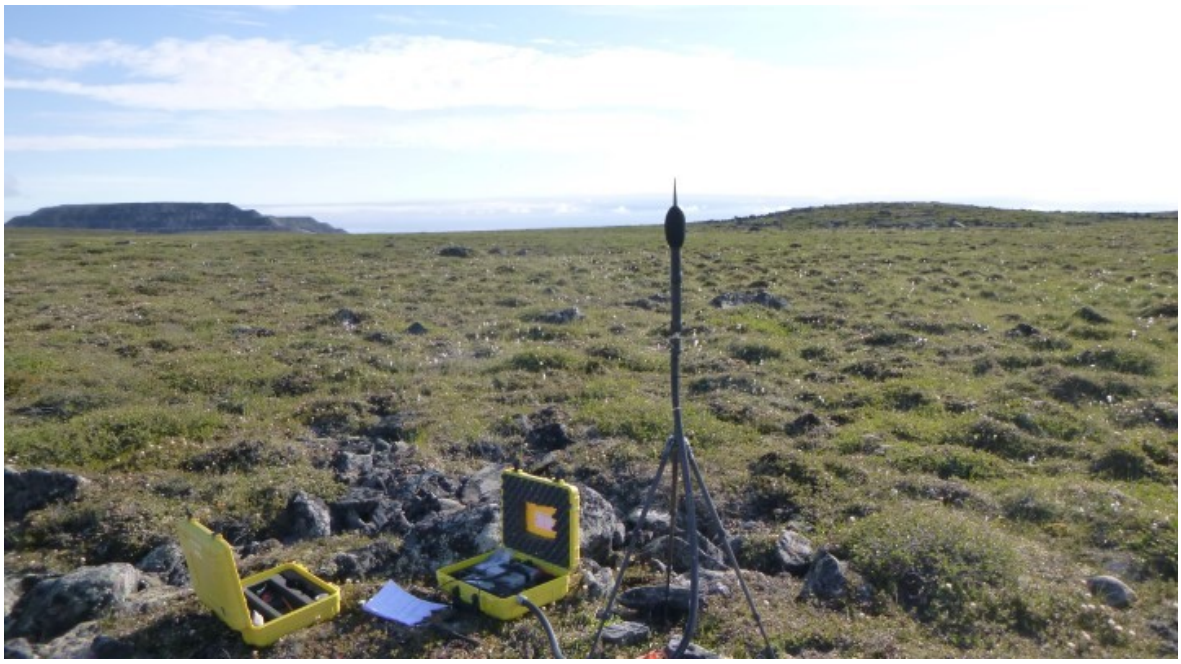


Figure -Apx 4: Monitoring location R4, looking east (July 29, 2021).

Figure -Apx 5: Monitoring location R5, looking north (July 22, 2021).

Figure Apx 6: Monitoring location R6, looking south at Vault Waste Rock Facility (July 26, 2021).

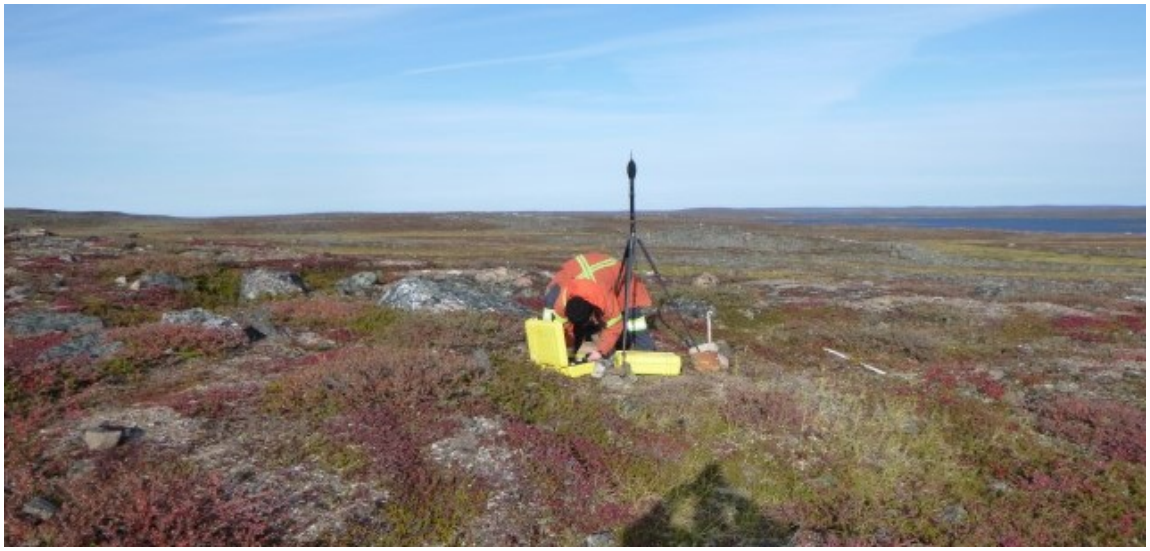


Figure -Apx 7: Monitoring location R7 (August 23, 2021).

Figure -Apx 8: Monitoring location R8 (September 11, 2021).

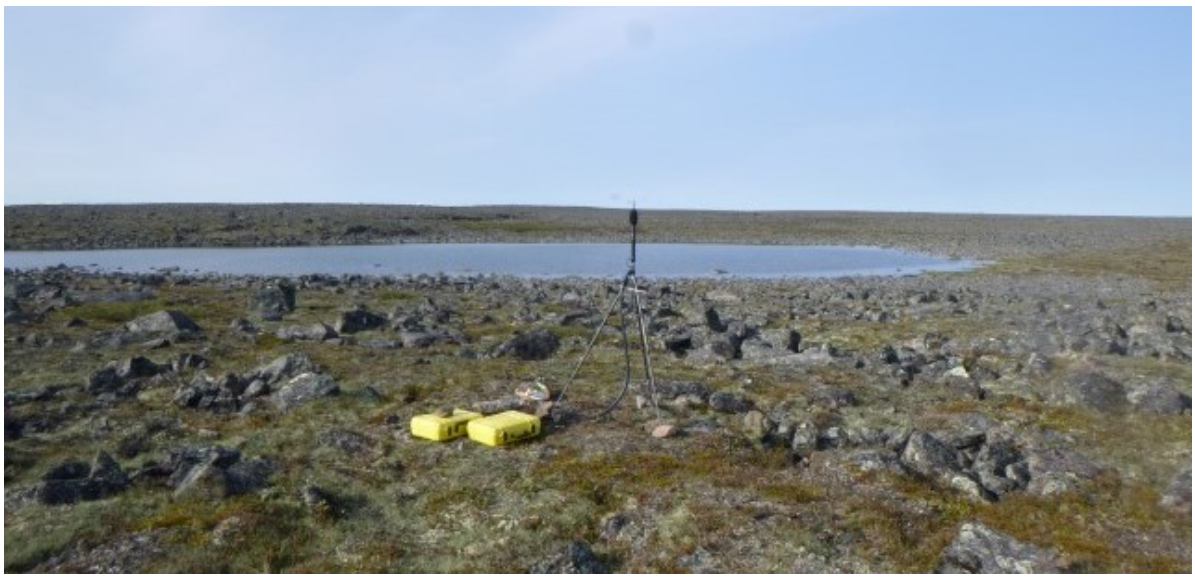


Figure Apx 9: Monitoring Location R9 (August 18, 2021).

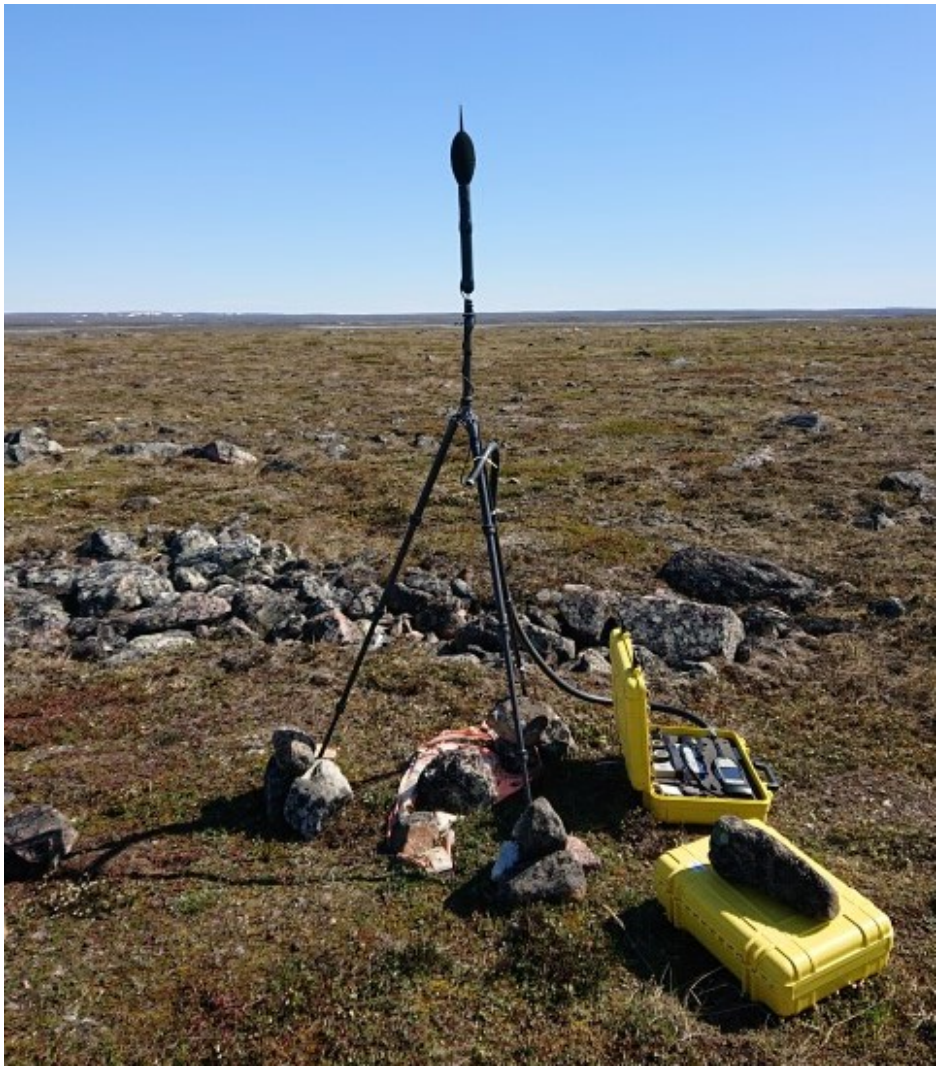


Figure Apx 10: Monitoring location R10 (July 8, 2021).

Figure Apx 11: Monitoring location R11 (July 16, 2021).

APPENDIX B

Weather Data and 1-h L_{eq} Values

App. Table 1. Average hourly air temperature, relative humidity, wind speed, and wind direction for the Meadowbank site weather station and calculated valid 1-h L_{eq} values. Those filtered out from analyses based on unacceptable weather conditions are excluded ("-"). Measurements from the first and last hour of a monitoring period were also filtered out to remove technician interference.

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/4/21 5:00 PM	9.0	51	6.2	5	-	R1		
7/4/21 6:00 PM	9.6	48	6.5	1	-	R1		
7/4/21 7:00 PM	9.7	48	6.7	5	-	R1		
7/4/21 8:00 PM	9.0	51	6.2	7	-	R1		
7/4/21 9:00 PM	8.5	47	6.4	5	-	R1		
7/4/21 10:00 PM	8.0	46	7.2	341	-	R1		
7/4/21 11:00 PM	7.6	56	6.1	348	-	R1		
7/5/21 12:00 AM	6.2	66	5.0	359	-	R1		
7/5/21 1:00 AM	5.0	72	3.5	5	41.8	R1		
7/5/21 2:00 AM	4.1	74	3.5	9	39.1	R1		
7/5/21 3:00 AM	3.7	77	2.9	355	34.2	R1		
7/5/21 4:00 AM	3.6	76	3.0	5	33.3	R1		
7/5/21 5:00 AM	3.6	77	2.9	349	32.6	R1		
7/5/21 6:00 AM	3.4	76	2.2	317	30.9	R1		
7/5/21 7:00 AM	4.3	74	1.7	294	30.2	R1		
7/5/21 8:00 AM	5.8	70	1.8	296	35.7	R1		
7/5/21 9:00 AM	6.6	62	3.1	292	30.4	R1		
7/5/21 10:00 AM	7.7	49	2.9	289	30.4	R1		
7/5/21 11:00 AM	9.2	43	3.1	279	35.9	R1		
7/5/21 12:00 PM	10.0	45	4.1	277	33.2	R1		
7/5/21 1:00 PM	10.9	42	4.6	273	-	R1		
7/5/21 2:00 PM	12.4	44	5.0	265	-	R1		
7/5/21 3:00 PM	13.1	46	5.6	262	-	R1		
7/5/21 4:00 PM	13.8	45	6.0	263	-	R1		
7/5/21 5:00 PM	13.9	43	5.8	278	-	R1		
7/5/21 6:00 PM	14.3	40	5.9	276	-	R1		
7/5/21 7:00 PM	14.3	41	6.0	275	-	R1		
7/5/21 8:00 PM	13.6	47	5.8	276	-	R1		
7/5/21 9:00 PM	13.1	47	5.3	272	-	R1		
7/5/21 10:00 PM	12.9	49	6.2	249	-	R1		
7/5/21 11:00 PM	11.5	54	6.6	246	-	R1		
7/6/21 12:00 AM	9.9	55	6.5	248	-	R1		
7/6/21 1:00 AM	9.3	56	6.8	251	-	R1		
7/6/21 2:00 AM	9.0	56	6.8	252	-	R1		
7/6/21 3:00 AM	9.1	57	7.0	252	-	R1		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/6/21 4:00 AM	8.6	55	6.3	246	-	R1		
7/6/21 5:00 AM	7.5	67	4.9	214	-	R1		
7/6/21 6:00 AM	6.8	68	3.6	191	38.5	R1		
7/6/21 7:00 AM	7.2	69	2.6	195	40.0	R1		
7/6/21 8:00 AM	8.4	70	2.8	177	32.3	R1		
7/6/21 9:00 AM	7.7	69	5.0	187	-	R1		
7/6/21 10:00 AM	9.4	60	6.1	194	-	R1		
7/6/21 11:00 AM	9.4	57	6.1	201	-	R1		
7/6/21 12:00 PM	9.1	71	5.1	200	-	R1		
7/6/21 1:00 PM	9.4	72	6.3	188	-	R1		
7/6/21 2:00 PM	9.7	67	5.7	190	-	R1		
7/6/21 3:00 PM	11.8	60	4.9	202	-	R1		
7/6/21 4:00 PM	14.4	56	6.1	227	-	R1		
7/6/21 5:00 PM	15.2	61	5.6	232	-	R1		
7/6/21 6:00 PM	16.3	60	4.3	251	-	R1		
7/6/21 7:00 PM	16.5	65	2.6	256	41.1	R1		
7/6/21 8:00 PM	13.8	77	3.6	228	35.8	R1		
7/6/21 9:00 PM	11.1	94	5.0	224	-	R1		
7/6/21 10:00 PM	11.8	89	4.2	233	-	R1		
7/6/21 11:00 PM	12.2	90	4.6	250	-	R1		
7/7/21 12:00 AM	10.8	100	3.5	292	30.1	R1		
7/7/21 1:00 AM	10.6	97	2.4	323	26.6	R1		
7/7/21 2:00 AM	10.1	93	3.1	331	28.4	R1		
7/7/21 3:00 AM	8.2	100	0.9	307	33.1	R1		
7/7/21 4:00 AM	7.3	100	3.8	311	36.3	R1		
7/7/21 5:00 AM	6.9	100	4.0	306	28.6	R1		
7/7/21 6:00 AM	7.3	100	5.6	316	-	R1		
7/7/21 7:00 AM	6.9	100	5.8	313	-	R1		
7/7/21 8:00 AM	7.9	100	5.7	322	-	R1		
7/7/21 9:00 AM	8.7	82	6.1	320	-	R1		
7/7/21 10:00 AM	9.5	73	6.9	319	-	R1		
7/7/21 11:00 AM	10.4	69	7.0	322	-	R1		
7/7/21 12:00 PM	12.2	65	7.1	338	-	R1		
7/7/21 1:00 PM	13.5	62	7.7	348	-	R1		
7/7/21 2:00 PM	13.9	57	7.5	347	-	R1		
7/7/21 3:00 PM	14.5	49	7.3	329	-	R1		
7/7/21 4:00 PM	15.4	44	8.4	326	-	R1		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/8/21 10:00 AM	11.1	53	2.9	296	-	R2		
7/8/21 11:00 AM	12.1	49	3.4	302	25.9	R2		
7/8/21 12:00 PM	13.1	43	3.6	309	39.9	R2		
7/8/21 1:00 PM	14.1	38	4.1	310	62.1	R2		
7/8/21 2:00 PM	14.9	35	4.0	311	30.0	R2		
7/8/21 3:00 PM	15.7	32	4.4	331	-	R2		
7/8/21 4:00 PM	16.3	34	4.3	315	-	R2		
7/8/21 5:00 PM	16.8	32	4.4	323	-	R2		
7/8/21 6:00 PM	17.2	29	3.8	323	27.3	R2		
7/8/21 7:00 PM	17.4	25	3.3	320	45.0	R2		
7/8/21 8:00 PM	17.4	24	2.9	337	36.6	R2		
7/8/21 9:00 PM	17.3	25	2.2	335	21.4	R2		
7/8/21 10:00 PM	16.8	25	2.0	353	23.3	R2		
7/8/21 11:00 PM	16.1	27	1.9	30	24.3	R2		
7/9/21 12:00 AM	13.8	49	1.4	85	29.6	R2		
7/9/21 1:00 AM	10.5	51	0.7	169	30.4	R2		
7/9/21 2:00 AM	10.4	56	0.2	142	33.0	R2		
7/9/21 3:00 AM	9.8	68	0.5	53	32.5	R2		
7/9/21 4:00 AM	8.1	68	0.4	115	32.4	R2		
7/9/21 5:00 AM	9.4	56	1.7	94	32.1	R2		
7/9/21 6:00 AM	9.0	54	1.2	97	31.9	R2		
7/9/21 7:00 AM	9.9	47	2.9	83	33.6	R2		
7/9/21 8:00 AM	11.2	49	1.9	92	35.7	R2		
7/9/21 9:00 AM	11.5	48	2.8	99	38.7	R2		
7/9/21 10:00 AM	13.1	48	2.5	99	39.2	R2		
7/9/21 11:00 AM	14.9	50	3.0	138	29.9	R2		
7/9/21 12:00 PM	15.4	52	3.6	147	39.1	R2		
7/9/21 1:00 PM	16.5	45	4.5	161	-	R2		
7/9/21 2:00 PM	17.2	42	4.1	191	35.8	R2		
7/9/21 3:00 PM	18.0	42	4.0	189	33.9	R2		
7/9/21 4:00 PM	18.1	43	3.4	188	29.0	R2		
7/9/21 5:00 PM	17.9	38	3.1	222	28.1	R2		
7/9/21 6:00 PM	18.7	42	2.7	258	32.2	R2		
7/9/21 7:00 PM	18.8	43	1.9	271	26.2	R2		
7/9/21 8:00 PM	18.0	54	2.8	250	28.5	R2		
7/9/21 9:00 PM	17.4	51	3.4	253	27.0	R2		
7/9/21 10:00 PM	17.3	55	4.2	247	-	R2		
7/9/21 11:00 PM	14.5	73	3.1	301	24.7	R2		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/10/21 12:00 AM	12.7	93	3.2	313	23.5	R2		
7/10/21 1:00 AM	11.4	100	2.1	311	22.0	R2		
7/10/21 2:00 AM	10.2	100	0.7	316	20.6	R2		
7/10/21 3:00 AM	9.6	100	0.1	302	21.5	R2		
7/10/21 4:00 AM	8.8	100	0.7	115	28.1	R2		
7/10/21 5:00 AM	7.8	100	0.2	33	27.7	R2		
7/10/21 6:00 AM	9.0	100	0.8	130	27.0	R2		
7/10/21 7:00 AM	9.0	100	1.5	145	24.1	R2		
7/10/21 8:00 AM	9.4	100	1.4	155	25.9	R2		
7/10/21 9:00 AM	11.3	100	1.7	158	42.4	R2		
7/10/21 10:00 AM	14.5	90	3.5	188	44.7	R2		
7/10/21 11:00 AM	16.3	62	4.7	197	-	R2		
7/10/21 12:00 PM	17.6	55	5.5	200	-	R2		
7/10/21 1:00 PM	18.5	48	5.3	201	-	R2		
7/10/21 2:00 PM	19.1	48	5.2	197	-	R2		
7/10/21 3:00 PM	18.3	54	4.8	213	-	R2		
7/10/21 4:00 PM	18.7	55	5.3	201	-	R2		
7/10/21 5:00 PM	18.0	59	6.5	202	-	R2		
7/22/21 11:00 AM	16.3	64	6.5	189	-	R5		
7/22/21 12:00 PM	18.3	56	6.4	192	-	R5		
7/22/21 1:00 PM	19.9	50	5.8	193	-	R5		
7/22/21 2:00 PM	20.7	45	5.9	191	-	R5		
7/22/21 3:00 PM	20.8	50	7.4	190	-	R5		
7/22/21 4:00 PM	20.9	51	7.0	190	-	R5		
7/22/21 5:00 PM	21.0	52	6.9	190	-	R5		
7/22/21 6:00 PM	20.5	61	6.3	189	-	R5		
7/22/21 7:00 PM	21.1	62	6.9	176	-	R5		
7/22/21 8:00 PM	19.7	71	6.3	169	-	R5		
7/22/21 9:00 PM	18.8	71	5.0	161	-	R5		
7/22/21 10:00 PM	18.2	76	3.7	170	44.6	R5		
7/22/21 11:00 PM	17.0	81	4.7	166	-	R5		
7/23/21 12:00 AM	16.6	85	4.5	162	-	R5		
7/23/21 1:00 AM	15.8	93	4.7	162	-	R5		
7/23/21 2:00 AM	15.2	100	4.6	161	-	R5		
7/23/21 3:00 AM	14.8	100	3.3	153	48.4	R5		
7/23/21 4:00 AM	14.5	100	3.0	112	36.0	R5		
7/23/21 5:00 AM	13.6	100	4.6	88	-	R5		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/23/21 6:00 AM	13.6	100	6.2	110	-	R5		
7/23/21 7:00 AM	13.6	100	5.1	127	-	R5		
7/23/21 8:00 AM	13.3	100	3.3	90	30.6	R5		
7/23/21 9:00 AM	13.3	100	4.3	85	-	R5		
7/23/21 10:00 AM	13.6	100	5.0	80	-	R5		
7/23/21 11:00 AM	13.0	100	5.3	98	-	R5		
7/23/21 12:00 PM	12.6	100	4.5	89	-	R5		
7/23/21 1:00 PM	12.9	100	4.3	66	-	R5		
7/23/21 2:00 PM	12.9	100	5.0	67	-	R5		
7/23/21 3:00 PM	12.8	100	4.9	53	-	R5		
7/23/21 4:00 PM	13.0	100	5.4	55	-	R5		
7/23/21 5:00 PM	13.3	100	5.1	67	-	R5		
7/23/21 6:00 PM	13.0	100	4.9	68	-	R5		
7/23/21 7:00 PM	12.7	100	4.5	54	-	R5		
7/23/21 8:00 PM	12.7	100	5.6	25	-	R5		
7/23/21 9:00 PM	13.0	100	5.2	22	-	R5		
7/23/21 10:00 PM	13.1	100	5.1	14	-	R5		
7/23/21 11:00 PM	13.0	100	5.9	14	-	R5		
7/24/21 12:00 AM	12.8	100	6.7	3	-	R5		
7/24/21 1:00 AM	12.4	100	9.7	346	-	R5		
7/24/21 2:00 AM	9.8	100	11.4	337	-	R5		
7/24/21 3:00 AM	8.5	100	11.8	334	-	R5		
7/24/21 4:00 AM	7.5	100	12.0	332	-	R5		
7/24/21 5:00 AM	6.7	100	12.6	331	-	R5		
7/24/21 6:00 AM	6.0	100	12.7	327	-	R5		
7/24/21 7:00 AM	5.7	100	13.1	325	-	R5		
7/24/21 8:00 AM	5.5	100	13.0	324	-	R5		
7/24/21 9:00 AM	5.3	100	13.2	325	-	R5		
7/24/21 10:00 AM	5.3	97	13.6	328	-	R5		
7/26/21 3:00 PM	6.4	77	10.1	300	-	R6		
7/26/21 4:00 PM	6.2	76	9.4	301	-	R6		
7/26/21 5:00 PM	6.3	75	7.6	296	-	R6		
7/26/21 6:00 PM	6.9	67	8.9	297	-	R6		
7/26/21 7:00 PM	7.6	65	8.0	296	-	R6		
7/26/21 8:00 PM	7.5	70	8.1	302	-	R6		
7/26/21 9:00 PM	7.2	68	7.7	299	-	R6		
7/26/21 10:00 PM	6.9	72	7.2	298	-	R6		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/26/21 11:00 PM	6.5	66	6.9	299	-	R6		
7/27/21 12:00 AM	6.1	74	6.1	306	-	R6		
7/27/21 1:00 AM	5.1	83	4.2	300	-	R6		
7/27/21 2:00 AM	5.2	84	4.9	291	-	R6		
7/27/21 3:00 AM	5.2	77	5.5	301	-	R6		
7/27/21 4:00 AM	5.2	77	6.3	306	-	R6		
7/27/21 5:00 AM	4.8	81	6.0	315	-	R6		
7/27/21 6:00 AM	4.8	82	4.5	300	-	R6		
7/27/21 7:00 AM	5.1	78	5.1	304	-	R6		
7/27/21 8:00 AM	4.9	85	5.7	323	-	R6		
7/27/21 9:00 AM	5.1	81	5.0	331	-	R6		
7/27/21 10:00 AM	5.3	74	4.5	329	-	R6		
7/27/21 11:00 AM	6.3	69	4.8	298	-	R6		
7/27/21 12:00 PM	6.8	63	4.1	294	35.2	R6		
7/27/21 1:00 PM	7.7	56	4.5	284	-	R6		
7/27/21 2:00 PM	8.8	52	4.4	291	-	R6		
7/27/21 3:00 PM	9.5	52	4.8	272	-	R6		
7/27/21 4:00 PM	10.0	58	6.4	274	-	R6		
7/27/21 5:00 PM	9.8	72	7.0	280	-	R6		
7/27/21 6:00 PM	9.8	61	6.2	290	-	R6		
7/27/21 7:00 PM	10.0	74	7.0	295	-	R6		
7/27/21 8:00 PM	9.4	66	6.3	294	-	R6		
7/27/21 9:00 PM	9.2	64	6.8	301	-	R6		
7/27/21 10:00 PM	8.6	71	6.3	295	-	R6		
7/27/21 11:00 PM	8.0	79	4.9	306	-	R6		
7/28/21 12:00 AM	7.5	80	4.5	329	-	R6		
7/28/21 1:00 AM	6.8	84	5.8	322	-	R6		
7/28/21 2:00 AM	6.4	85	4.6	307	-	R6		
7/28/21 3:00 AM	6.3	86	5.3	286	-	R6		
7/28/21 4:00 AM	6.4	82	6.3	283	-	R6		
7/28/21 5:00 AM	6.3	85	6.7	282	-	R6		
7/28/21 6:00 AM	6.3	82	7.3	282	-	R6		
7/28/21 7:00 AM	6.3	79	7.3	285	-	R6		
7/28/21 8:00 AM	6.6	79	7.6	291	-	R6		
7/28/21 9:00 AM	6.7	79	8.1	290	-	R6		
7/28/21 10:00 AM	7.1	79	8.1	292	-	R6		
7/28/21 11:00 AM	7.4	78	8.5	291	-	R6		
7/28/21 12:00 PM	7.5	87	8.4	287	-	R6		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/28/21 1:00 PM	7.4	76	8.4	296	-	R6		
7/28/21 2:00 PM	8.3	71	8.7	300	-	R6		
7/28/21 3:00 PM	8.6	69	8.2	309	-	R6		
7/29/21 10:00 AM	9.4	71	4.1	100	-	R4		
7/29/21 11:00 AM	10.7	61	4.8	118	-	R4		
7/29/21 12:00 PM	11.6	55	5.1	130	-	R4		
7/29/21 1:00 PM	11.9	53	5.5	127	-	R4		
7/29/21 2:00 PM	12.7	52	5.7	129	-	R4		
7/29/21 3:00 PM	13.0	55	5.7	132	-	R4		
7/29/21 4:00 PM	13.0	58	5.4	131	-	R4		
7/29/21 5:00 PM	12.8	60	5.7	130	-	R4		
7/29/21 6:00 PM	11.9	73	5.5	125	-	R4		
7/29/21 7:00 PM	10.9	83	4.7	112	-	R4		
7/29/21 8:00 PM	10.1	90	3.8	91	40.9	R4		
7/29/21 9:00 PM	9.8	91	4.4	83	-	R4		
7/29/21 10:00 PM	9.8	93	5.0	85	-	R4		
7/29/21 11:00 PM	9.4	98	6.9	90	-	R4		
7/30/21 12:00 AM	8.9	98	6.2	79	-	R4		
7/30/21 1:00 AM	8.3	97	6.3	69	-	R4		
7/30/21 2:00 AM	8.2	95	5.8	60	-	R4		
7/30/21 3:00 AM	8.1	95	5.8	64	-	R4		
7/30/21 4:00 AM	8.1	95	5.8	57	-	R4		
7/30/21 5:00 AM	8.0	96	5.6	80	-	R4		
7/30/21 6:00 AM	8.0	95	4.2	57	34.4	R4		
7/30/21 7:00 AM	8.1	93	4.3	56	-	R4		
7/30/21 8:00 AM	8.1	91	3.4	69	33.3	R4		
7/30/21 9:00 AM	8.2	89	3.3	81	32.6	R4		
7/30/21 10:00 AM	8.4	88	2.9	91	33.9	R4		
7/30/21 11:00 AM	8.6	84	3.3	104	32.2	R4		
7/30/21 12:00 PM	8.9	82	2.9	109	31.3	R4		
7/30/21 1:00 PM	9.4	79	2.9	127	33.3	R4		
7/30/21 2:00 PM	9.7	76	3.2	153	32.1	R4		
7/30/21 3:00 PM	10.3	69	2.5	159	30.3	R4		
7/30/21 4:00 PM	11.0	66	2.3	146	31.3	R4		
7/30/21 5:00 PM	11.1	70	3.3	126	32.8	R4		
7/30/21 6:00 PM	11.0	73	4.2	135	-	R4		
7/30/21 7:00 PM	11.1	72	4.9	160	-	R4		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
7/30/21 8:00 PM	10.6	83	6.0	169	-	R4		
7/30/21 9:00 PM	9.5	94	7.2	170	-	R4		
7/30/21 10:00 PM	8.7	93	7.9	169	-	R4		
7/30/21 11:00 PM	8.2	95	7.8	170	-	R4		
7/31/21 12:00 AM	7.9	100	7.5	160	-	R4		
7/31/21 1:00 AM	7.8	100	6.5	170	-	R4		
7/31/21 2:00 AM	8.0	100	7.4	176	-	R4		
7/31/21 3:00 AM	8.1	100	7.6	190	-	R4		
7/31/21 4:00 AM	8.0	100	5.6	204	-	R4		
7/31/21 5:00 AM	8.9	100	8.0	308	-	R4		
7/31/21 6:00 AM	8.4	100	8.3	321	-	R4		
7/31/21 7:00 AM	7.1	99	9.3	319	-	R4		
7/31/21 8:00 AM	6.5	96	9.5	327	-	R4		
7/31/21 9:00 AM	6.3	85	9.1	322	-	R4		
7/31/21 10:00 AM	6.9	78	8.5	326	-	R4		
7/31/21 11:00 AM	7.3	73	8.5	320	-	R4		
7/31/21 12:00 PM	8.1	69	8.1	314	-	R4		
7/31/21 1:00 PM	9.0	66	7.6	311	-	R4		
7/31/21 2:00 PM	10.3	53	6.5	313	-	R4		
7/31/21 3:00 PM	11.2	51	5.8	318	-	R4		
7/31/21 4:00 PM	12.1	55	4.7	307	-	R4		
7/31/21 5:00 PM	12.4	40	3.6	296	-	R4		
8/8/21 5:00 PM	8.7	73	7.5	288	-	R5		
8/8/21 6:00 PM	7.9	68	8.0	294	-	R5		
8/8/21 7:00 PM	8.4	65	7.5	283	-	R5		
8/8/21 8:00 PM	8.1	79	8.6	279	-	R5		
8/8/21 9:00 PM	7.1	79	9.5	274	-	R5		
8/8/21 10:00 PM	6.7	85	10.3	276	-	R5		
8/8/21 11:00 PM	6.1	89	10.7	280	-	R5		
8/9/21 12:00 AM	5.6	91	10.4	273	-	R5		
8/9/21 1:00 AM	5.7	94	10.9	276	-	R5		
8/9/21 2:00 AM	5.6	93	11.4	273	-	R5		
8/9/21 3:00 AM	5.6	94	12.3	279	-	R5		
8/9/21 4:00 AM	5.6	99	12.4	278	-	R5		
8/9/21 5:00 AM	5.8	97	12.7	286	-	R5		
8/9/21 6:00 AM	5.9	94	13.2	288	-	R5		
8/9/21 7:00 AM	5.6	99	12.9	290	-	R5		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/9/21 8:00 AM	5.7	94	13.5	291	-	R5		
8/9/21 9:00 AM	6.1	89	13.6	287	-	R5		
8/9/21 10:00 AM	6.4	85	13.3	289	-	R5		
8/9/21 11:00 AM	6.7	82	13.6	289	-	R5		
8/9/21 12:00 PM	7.1	81	13.3	286	-	R5		
8/9/21 1:00 PM	6.9	77	12.9	283	-	R5		
8/9/21 2:00 PM	7.3	76	12.7	282	-	R5		
8/9/21 3:00 PM	7.9	74	12.1	286	-	R5		
8/9/21 4:00 PM	9.0	61	10.9	276	-	R5		
8/9/21 5:00 PM	9.8	64	11.4	288	-	R5		
8/9/21 6:00 PM	9.7	60	11.1	284	-	R5		
8/9/21 7:00 PM	9.9	64	10.0	283	-	R5		
8/9/21 8:00 PM	9.8	67	7.7	276	-	R5		
8/9/21 9:00 PM	10.0	69	5.1	266	-	R5		
8/9/21 10:00 PM	8.9	77	3.5	267	32.6	R5		
8/9/21 11:00 PM	7.8	79	3.2	243	24.8	R5		
8/10/21 12:00 AM	7.5	82	4.0	234	29.7	R5		
8/10/21 1:00 AM	7.4	77	4.6	235	-	R5		
8/10/21 2:00 AM	7.0	83	3.8	220	25.8	R5		
8/10/21 3:00 AM	6.2	82	1.6	171	31.8	R5		
8/10/21 4:00 AM	6.2	88	1.3	171	35.1	R5		
8/10/21 5:00 AM	6.0	86	1.2	158	27.1	R5		
8/10/21 6:00 AM	6.4	81	1.7	135	58.0	R5		
8/10/21 7:00 AM	7.0	81	2.7	111	48.7	R5		
8/10/21 8:00 AM	7.7	78	3.0	125	30.5	R5		
8/10/21 9:00 AM	8.1	79	2.5	115	33.5	R5		
8/10/21 10:00 AM	8.8	80	3.1	101	32.6	R5		
8/10/21 11:00 AM	9.0	82	4.0	108	32.8	R5		
8/10/21 12:00 PM	8.8	89	3.6	92	42.0	R5		
8/10/21 1:00 PM	8.9	91	4.5	88	-	R5		
8/10/21 2:00 PM	8.9	95	5.0	70	-	R5		
8/10/21 3:00 PM	8.8	96	6.5	61	-	R5		
8/10/21 4:00 PM	8.7	98	7.4	58	-	R5		
8/10/21 5:00 PM	8.7	99	7.6	50	-	R5		
8/10/21 6:00 PM	8.6	100	7.6	46	-	R5		
8/10/21 7:00 PM	8.5	100	8.7	43	-	R5		
8/10/21 8:00 PM	8.5	100	9.5	34	-	R5		
8/10/21 9:00 PM	8.4	100	9.8	28	-	R5		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/10/21 10:00 PM	8.4	100	9.1	22	-	R5		
8/10/21 11:00 PM	8.4	100	8.8	20	-	R5		
8/11/21 12:00 AM	8.1	100	8.7	18	-	R5		
8/11/21 1:00 AM	7.8	100	7.9	15	-	R5		
8/11/21 2:00 AM	7.6	100	8.7	10	-	R5		
8/11/21 3:00 AM	7.5	100	9.3	9	-	R5		
8/11/21 4:00 AM	7.4	100	8.8	12	-	R5		
8/14/21 10:00 AM	4.3	89	5.5	322	-	R2		
8/14/21 11:00 AM	4.5	88	4.8	320	37.3	R2		
8/14/21 12:00 PM	5.1	80	4.1	326	-	R2		
8/14/21 1:00 PM	5.8	69	4.3	324	34.2	R2		
8/14/21 2:00 PM	6.8	68	3.9	328	32.6	R2		
8/14/21 3:00 PM	8.3	62	3.4	329	52.1	R2		
8/14/21 4:00 PM	9.0	55	3.1	11	26.8	R2		
8/14/21 5:00 PM	9.5	56	3.1	14	46.6	R2		
8/14/21 6:00 PM	9.8	57	2.8	42	32.0	R2		
8/14/21 7:00 PM	9.6	59	3.3	41	35.1	R2		
8/14/21 8:00 PM	9.3	64	3.8	37	-	R2		
8/14/21 9:00 PM	8.7	69	4.7	41	36.6	R2		
8/14/21 10:00 PM	8.1	70	3.5	47	-	R2		
8/14/21 11:00 PM	7.8	70	4.2	47	34.2	R2		
8/15/21 12:00 AM	7.6	74	3.7	44	34.5	R2		
8/15/21 1:00 AM	7.5	73	3.3	47	35.1	R2		
8/15/21 2:00 AM	7.4	72	3.1	42	35.3	R2		
8/15/21 3:00 AM	7.4	69	3.8	41	36.8	R2		
8/15/21 4:00 AM	6.6	79	3.7	20	-	R2		
8/15/21 5:00 AM	5.5	83	4.7	25	53.5	R2		
8/15/21 6:00 AM	4.7	87	4.2	23	-	R2		
8/15/21 7:00 AM	4.2	91	4.6	11	-	R2		
8/15/21 8:00 AM	3.8	97	5.8	8	34.6	R2		
8/15/21 9:00 AM	4.5	84	4.0	10	41.4	R2		
8/15/21 10:00 AM	6.6	79	4.1	5	-	R2		
8/15/21 11:00 AM	7.9	71	5.7	349	-	R2		
8/15/21 12:00 PM	8.7	65	6.1	2	-	R2		
8/15/21 1:00 PM	9.4	63	5.7	351	-	R2		
8/15/21 2:00 PM	10.3	58	6.4	350	-	R2		
8/15/21 3:00 PM	11.0	54	7.0	349	-	R2		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/15/21 4:00 PM	11.6	54	7.1	343	-	R2		
8/15/21 5:00 PM	11.8	54	6.8	349	-	R2		
8/15/21 6:00 PM	11.8	54	6.7	357	-	R2		
8/15/21 7:00 PM	11.6	57	7.0	338	-	R2		
8/15/21 8:00 PM	10.7	61	6.9	334	-	R2		
8/15/21 9:00 PM	9.8	68	4.7	338	34.6	R2		
8/15/21 10:00 PM	8.6	76	4.0	334	-	R2		
8/15/21 11:00 PM	7.4	79	4.5	326	-	R2		
8/16/21 12:00 AM	6.7	85	5.0	323	-	R2		
8/16/21 1:00 AM	6.2	85	5.1	326	-	R2		
8/16/21 2:00 AM	5.6	85	4.6	326	-	R2		
8/16/21 3:00 AM	4.9	91	4.6	343	-	R2		
8/16/21 4:00 AM	4.2	96	4.6	355	37.6	R2		
8/16/21 5:00 AM	3.8	97	4.1	344	-	R2		
8/16/21 6:00 AM	3.5	100	4.6	333	-	R2		
8/16/21 7:00 AM	3.9	95	5.0	358	40.8	R2		
8/16/21 8:00 AM	4.0	92	4.1	359	37.3	R2		
8/16/21 9:00 AM	4.9	82	3.7	0	-	R2		
8/16/21 10:00 AM	5.8	72	4.0	10	-	R2		
8/23/21 2:00 PM	8.1	68	10.0	314	-	R1		
8/23/21 3:00 PM	9.0	64	10.5	313	-	R1		
8/23/21 4:00 PM	9.7	57	10.2	317	-	R1		
8/23/21 5:00 PM	10.4	50	10.1	322	-	R1		
8/23/21 6:00 PM	10.8	47	10.1	321	-	R1		
8/23/21 7:00 PM	10.8	49	8.9	324	-	R1		
8/23/21 8:00 PM	10.4	51	7.6	324	-	R1		
8/23/21 9:00 PM	9.6	56	7.7	318	-	R1		
8/23/21 10:00 PM	8.5	68	5.7	320	-	R1		
8/23/21 11:00 PM	7.3	78	3.7	313	29.5	R1		
8/24/21 12:00 AM	6.2	81	3.3	303	29.7	R1		
8/24/21 1:00 AM	5.5	85	3.1	302	27.2	R1		
8/24/21 2:00 AM	5.5	86	2.5	294	31.4	R1		
8/24/21 3:00 AM	5.4	88	2.7	293	29.9	R1		
8/24/21 4:00 AM	5.0	90	3.1	289	28.6	R1		
8/24/21 5:00 AM	4.8	93	2.5	292	41.4	R1		
8/24/21 6:00 AM	4.8	89	2.4	292	40.8	R1		
8/24/21 7:00 AM	4.9	82	1.0	268	38.7	R1		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/24/21 8:00 AM	5.9	79	2.4	242	31.7	R1		
8/24/21 9:00 AM	6.8	72	2.2	270	31.0	R1		
8/24/21 10:00 AM	9.1	63	2.7	247	30.9	R1		
8/24/21 11:00 AM	11.2	58	3.6	257	41.7	R1		
8/24/21 12:00 PM	12.7	53	5.3	260	-	R1		
8/24/21 1:00 PM	14.2	51	7.0	275	-	R1		
8/24/21 2:00 PM	14.8	49	7.9	278	-	R1		
8/24/21 3:00 PM	14.9	46	7.2	279	-	R1		
8/24/21 4:00 PM	15.5	42	6.3	274	-	R1		
8/24/21 5:00 PM	15.5	48	5.6	290	-	R1		
8/24/21 6:00 PM	13.9	59	4.9	307	-	R1		
8/24/21 7:00 PM	13.6	58	3.6	278	22.7	R1		
8/24/21 8:00 PM	13.7	57	4.4	270	-	R1		
8/24/21 9:00 PM	12.6	72	3.9	301	21.1	R1		
8/24/21 10:00 PM	11.1	74	1.9	255	26.2	R1		
8/24/21 11:00 PM	9.7	77	0.6	207	29.3	R1		
8/25/21 12:00 AM	9.3	81	2.6	283	27.2	R1		
8/25/21 1:00 AM	8.3	86	2.6	288	28.7	R1		
8/25/21 2:00 AM	7.7	87	2.5	293	31.3	R1		
8/25/21 3:00 AM	7.2	90	2.4	298	29.5	R1		
8/25/21 4:00 AM	6.9	94	1.1	6	30.7	R1		
8/25/21 5:00 AM	6.3	98	0.5	177	34.2	R1		
8/25/21 6:00 AM	6.2	98	0.1	181	42.9	R1		
8/25/21 7:00 AM	5.9	98	1.0	167	43.3	R1		
8/25/21 8:00 AM	6.3	95	1.5	171	38.8	R1		
8/25/21 9:00 AM	7.7	89	1.9	183	41.6	R1		
8/25/21 10:00 AM	9.0	79	2.6	179	42.8	R1		
8/25/21 11:00 AM	10.9	70	3.9	185	33.2	R1		
8/25/21 12:00 PM	12.3	64	5.3	195		R1		
8/25/21 1:00 PM	13.9	55	4.8	210	-	R1		
8/25/21 2:00 PM	15.5	48	5.1	225	-	R1		
8/25/21 3:00 PM	16.2	48	5.1	222	-	R1		
8/25/21 4:00 PM	15.7	47	6.3	196	-	R1		
8/25/21 5:00 PM	15.2	48	6.5	196	-	R1		
8/25/21 6:00 PM	14.9	48	6.6	190	-	R1		
8/25/21 7:00 PM	15.0	53	6.5	189	-	R1		
8/25/21 8:00 PM	13.8	63	5.5	162	-	R1		
8/25/21 9:00 PM	13.4	68	5.4	157	-	R1		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/25/21 10:00 PM	12.8	73	5.7	161	-	R1		
8/25/21 11:00 PM	12.9	73	6.5	173	-	R1		
8/26/21 12:00 AM	12.6	75	5.6	177	-	R1		
8/26/21 1:00 AM	12.2	78	5.8	180	-	R1		
8/26/21 2:00 AM	11.4	80	5.5	185	-	R1		
8/26/21 3:00 AM	11.3	81	6.4	187	-	R1		
8/26/21 4:00 AM	10.4	86	5.6	188	-	R1		
8/26/21 5:00 AM	10.1	87	5.1	192	-	R1		
8/26/21 6:00 AM	10.1	85	2.7	177	-	R1		
8/26/21 3:00 PM	19.6	53	3.8	249	-	R3		
8/26/21 4:00 PM	20.2	49	3.6	271	25.2	R3		
8/26/21 5:00 PM	21.0	49	3.1	269	50.1	R3		
8/26/21 6:00 PM	21.0	47	3.2	302	36.7	R3		
8/26/21 7:00 PM	21.1	47	2.6	305	33.0	R3		
8/26/21 8:00 PM	20.7	52	1.8	300	31.0	R3		
8/26/21 9:00 PM	19.0	56	2.3	357	33.4	R3		
8/26/21 10:00 PM	17.5	63	3.0	11	34.8	R3		
8/26/21 11:00 PM	16.3	68	4.3	28	-	R3		
8/27/21 12:00 AM	15.0	71	4.8	29	-	R3		
8/27/21 1:00 AM	14.0	72	6.1	40	-	R3		
8/27/21 2:00 AM	13.6	75	5.9	50	-	R3		
8/27/21 3:00 AM	12.6	80	5.3	63	-	R3		
8/27/21 4:00 AM	12.0	81	3.9	62	39.8	R3		
8/27/21 5:00 AM	11.8	81	3.9	54	35.7	R3		
8/27/21 6:00 AM	11.5	84	3.8	69	35.8	R3		
8/27/21 7:00 AM	11.4	93	3.0	94	34.4	R3		
8/27/21 8:00 AM	12.0	87	3.3	42	38.9	R3		
8/27/21 9:00 AM	12.0	95	5.0	93	-	R3		
8/27/21 10:00 AM	12.7	89	5.1	104	-	R3	-	R6
8/27/21 11:00 AM	14.4	81	5.0	158	-	R3	-	R6
8/27/21 12:00 PM	15.6	72	3.1	194	29.6	R3	34.2	R6
8/27/21 1:00 PM	16.4	67	4.4	171	-	R3	-	R6
8/27/21 2:00 PM	17.4	63	3.7	186	35.3	R3	34.4	R6
8/27/21 3:00 PM	19.2	54	3.9	229	28.5	R3	29.0	R6
8/27/21 4:00 PM	19.6	58	3.4	258	29.1	R3	28.2	R6
8/27/21 5:00 PM	20.1	53	2.8	260	26.3	R3	26.2	R6
8/27/21 6:00 PM	21.0	50	2.2	256	25.4	R3	22.1	R6

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/27/21 7:00 PM	21.1	51	2.0	259	25.2	R3	22.6	R6
8/27/21 8:00 PM	20.0	58	1.4	250	28.7	R3	21.0	R6
8/27/21 9:00 PM	19.0	65	0.5	301	31.5	R3	24.6	R6
8/27/21 10:00 PM	17.4	79	0.8	15	33.9	R3	27.6	R6
8/27/21 11:00 PM	14.3	85	0.2	137	34.1	R3	30.6	R6
8/28/21 12:00 AM	13.9	82	0.5	118	33.9	R3	31.2	R6
8/28/21 1:00 AM	13.7	84	0.5	84	33.6	R3	34.1	R6
8/28/21 2:00 AM	13.8	86	0.9	67	32.9	R3	37.8	R6
8/28/21 3:00 AM	13.5	84	1.0	47	34.7	R3	36.7	R6
8/28/21 4:00 AM	12.5	92	0.8	62	35.5	R3	30.5	R6
8/28/21 5:00 AM	12.3	88	1.1	38	34.0	R3	31.9	R6
8/28/21 6:00 AM	11.9	90	1.7	5	33.8	R3	37.6	R6
8/28/21 7:00 AM	11.1	88	1.2	115	37.0	R3	38.4	R6
8/28/21 8:00 AM	11.9	89	2.0	66	35.2	R3	36.7	R6
8/28/21 9:00 AM	12.2	85	3.0	75	30.4	R3	34.7	R6
8/28/21 10:00 AM	13.4	82	2.2	75	34.6	R3	31.7	R6
8/28/21 11:00 AM	12.9	89	3.8	90	34.4	R3	32.8	R6
8/28/21 12:00 PM	12.2	94	3.9	100	37.3	R3	33.4	R6
8/28/21 1:00 PM	11.6	96	5.2	95	-	R3	-	R6
8/28/21 2:00 PM	12.1	92	4.4	88	-	R3	-	R6
8/28/21 3:00 PM	12.9	86	4.0	88	30.4	R3	27.1	R6
8/28/21 4:00 PM	13.4	85	3.6	89	34.5	R3	31.0	R6
8/28/21 5:00 PM	13.7	88	2.5	74	34.6	R3	31.7	R6
8/28/21 6:00 PM	13.4	90	3.8	35	36.6	R3	35.3	R6
8/28/21 7:00 PM	13.2	92	4.6	65	-	R3	-	R6
8/28/21 8:00 PM	13.0	90	5.4	68	-	R3	-	R6
8/28/21 9:00 PM	12.6	91	5.5	76	-	R3	-	R6
8/28/21 10:00 PM	11.9	93	4.1	86	34.6	R3	29.0	R6
8/28/21 11:00 PM	11.3	96	4.4	91	-	R3	-	R6
8/29/21 12:00 AM	10.7	98	4.5	77	-	R3	-	R6
8/29/21 1:00 AM	10.1	99	5.4	78	-	R3	-	R6
8/29/21 2:00 AM	9.8	99	6.9	81	-	R3	-	R6
8/29/21 3:00 AM	9.5	99	6.6	90	-	R3	-	R6
8/29/21 4:00 AM	9.3	100	7.5	85	-	R3	-	R6
8/29/21 5:00 AM	8.9	100	7.9	87	-	R3	-	R6
8/29/21 6:00 AM	8.5	100	7.2	85	-	R3	-	R6
8/29/21 7:00 AM	8.6	100	6.1	91	-	R3	-	R6
8/29/21 8:00 AM	8.6	100	5.6	97	-	R3	-	R6

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/29/21 9:00 AM	8.7	100	5.6	106	-	R3	-	R6
8/29/21 10:00 AM	9.0	100	5.0	108	-	R3	-	R6
8/29/21 11:00 AM	9.4	100	5.7	99	-	R3	-	R6
8/29/21 12:00 PM	10.0	100	5.3	105	-	R3	-	R6
8/29/21 1:00 PM	10.8	96	6.4	96	-	R3	-	R6
8/29/21 2:00 PM	11.4	90	5.6	95	-	R3	-	R6
8/29/21 3:00 PM	12.1	88	5.2	105	-	R3	-	R6
8/29/21 4:00 PM	12.2	94	5.9	101	-	R3	-	R6
8/29/21 5:00 PM	12.6	88	6.2	100			-	R6
8/29/21 6:00 PM	12.9	89	6.2	99			-	R6
8/29/21 7:00 PM	13.1	88	5.8	101			-	R6
8/29/21 8:00 PM	12.7	93	5.9	100			-	R6
8/29/21 9:00 PM	12.6	87	6.6	104			-	R6
8/29/21 10:00 PM	13.0	79	7.0	110			-	R6
8/29/21 11:00 PM	12.5	85	6.9	111			-	R6
8/30/21 12:00 AM	11.9	87	6.4	108			-	R6
8/30/21 1:00 AM	11.9	82	6.4	122			-	R6
8/30/21 2:00 AM	11.5	87	3.8	146			40.0	R6
8/30/21 3:00 AM	11.1	86	4.2	128			-	R6
8/30/21 4:00 AM	10.3	90	6.4	116			-	R6
8/30/21 5:00 AM	9.5	90	6.3	127			-	R6
8/30/21 6:00 AM	8.9	91	5.6	127			-	R6
8/30/21 7:00 AM	8.3	95	6.0	124			-	R6
8/30/21 8:00 AM	7.9	98	6.1	133			-	R6
8/30/21 9:00 AM	7.7	100	6.3	136			-	R6
8/30/21 10:00 AM	8.0	100	7.5	137			-	R6
8/30/21 11:00 AM	8.5	100	8.0	130			-	R6
8/30/21 12:00 PM	8.7	100	7.8	142			-	R6
8/30/21 1:00 PM	9.4	100	5.7	140			-	R6
8/30/21 2:00 PM	10.0	99	6.5	130			-	R6
8/30/21 3:00 PM	11.3	89	5.7	133			-	R6
8/30/21 4:00 PM	12.5	83	6.4	134			-	R6
8/30/21 5:00 PM	13.6	80	6.2	136			-	R6
8/30/21 6:00 PM	13.4	86	4.6	154			-	R6
8/30/21 7:00 PM	13.4	81	3.5	140			40.5	R6
8/30/21 8:00 PM	13.1	86	4.7	138			-	R6
8/30/21 9:00 PM	12.6	86	5.1	140			-	R6
8/30/21 10:00 PM	12.5	86	5.7	139			-	R6

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
8/30/21 11:00 PM	12.2	87	6.7	141			-	R6
8/31/21 12:00 AM	11.7	90	6.5	141			-	R6
8/31/21 1:00 AM	11.0	95	4.7	154			-	R6
8/31/21 2:00 AM	10.6	96	4.0	153			38.2	R6
8/31/21 3:00 AM	10.3	97	3.8	148			34.2	R6
8/31/21 4:00 AM	10.1	98	2.7	143			30.9	R6
8/31/21 5:00 AM	9.8	100	3.1	141			31.6	R6
8/31/21 6:00 AM	9.8	100	2.6	145			21.1	R6
8/31/21 7:00 AM	9.8	100	1.9	148			20.0	R6
8/31/21 8:00 AM	9.7	100	2.0	111			21.0	R6
8/31/21 9:00 AM	9.6	100	2.2	100			19.1	R6
8/31/21 10:00 AM	9.5	100	2.2	92			20.5	R6
8/31/21 4:00 PM	10.5	100	2.8	39	-	R4		
8/31/21 5:00 PM	10.7	100	2.9	38	30.5	R4		
8/31/21 6:00 PM	10.8	100	3.1	13	29.7	R4		
8/31/21 7:00 PM	10.7	100	3.4	15	35.8	R4		
8/31/21 8:00 PM	10.7	100	3.4	353	34.4	R4		
8/31/21 9:00 PM	10.5	100	3.7	358	39.9	R4		
8/31/21 10:00 PM	10.5	100	2.5	7	34.0	R4		
8/31/21 11:00 PM	10.3	100	3.0	359	34.6	R4		
9/1/21 12:00 AM	10.3	100	3.0	358	34.9	R4		
9/1/21 1:00 AM	10.1	100	2.4	342	36.2	R4		
9/1/21 2:00 AM	9.9	100	2.7	343	35.7	R4		
9/1/21 3:00 AM	9.8	100	3.2	337	34.7	R4		
9/1/21 4:00 AM	9.7	100	2.2	337	36.1	R4		
9/1/21 5:00 AM	9.7	100	1.6	321	34.2	R4		
9/1/21 6:00 AM	9.6	100	1.9	342	28.2	R4		
9/1/21 7:00 AM	9.7	100	2.1	0	34.4	R4		
9/1/21 8:00 AM	9.6	100	1.8	3	36.1	R4		
9/1/21 9:00 AM	9.7	100	2.4	345	30.3	R4		
9/1/21 10:00 AM	10.0	100	2.7	9	27.0	R4		
9/1/21 11:00 AM	10.4	100	1.7	25	30.3	R4		
9/1/21 12:00 PM	10.9	100	2.2	18	22.7	R4		
9/1/21 1:00 PM	11.5	98	1.0	347	28.6	R4		
9/1/21 2:00 PM	11.2	100	2.4	286	37.9	R4		
9/1/21 3:00 PM	11.1	100	2.3	8	32.4	R4		
9/1/21 4:00 PM	11.6	100	2.3	64	27.8	R4		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
9/1/21 5:00 PM	11.5	100	1.6	105	29.7	R4		
9/1/21 6:00 PM	11.3	100	1.4	194	33.0	R4		
9/1/21 7:00 PM	11.1	100	1.0	297	35.5	R4		
9/1/21 8:00 PM	11.2	100	1.1	342	34.0	R4		
9/1/21 9:00 PM	11.1	100	1.8	6	36.6	R4		
9/1/21 10:00 PM	11.0	100	2.3	0	37.8	R4		
9/1/21 11:00 PM	10.6	100	2.1	313	35.0	R4		
9/2/21 12:00 AM	10.8	100	2.2	16	29.8	R4		
9/2/21 1:00 AM	10.7	100	2.2	20	33.3	R4		
9/2/21 2:00 AM	10.6	100	2.1	358	32.1	R4		
9/2/21 3:00 AM	10.3	100	3.3	358	32.8	R4		
9/2/21 4:00 AM	10.0	100	3.6	12	34.7	R4		
9/2/21 5:00 AM	9.9	100	3.6	2	31.6	R4		
9/2/21 6:00 AM	9.7	100	4.1	9	35.6	R4		
9/2/21 7:00 AM	9.3	100	4.8	6	-	R4		
9/2/21 8:00 AM	9.2	100	5.8	7	-	R4		
9/2/21 9:00 AM	9.5	100	5.3	9	-	R4		
9/2/21 10:00 AM	9.0	100	6.0	7	-	R4		
9/2/21 11:00 AM	9.2	100	6.4	10	-	R4		
9/2/21 12:00 PM	10.3	95	6.2	13	-	R4		
9/2/21 1:00 PM	11.4	81	5.5	19	-	R4		
9/3/21 9:00 AM	8.8	100	6.6	57	-	R3		
9/3/21 10:00 AM	8.8	94	6.8	56	-	R3		
9/3/21 11:00 AM	8.8	92	7.3	52	-	R3		
9/3/21 12:00 PM	9.0	86	7.5	48	-	R3		
9/3/21 1:00 PM	9.6	82	7.6	53	-	R3		
9/3/21 2:00 PM	9.9	77	6.9	50	-	R3		
9/3/21 3:00 PM	10.4	76	6.5	40	-	R3		
9/3/21 4:00 PM	10.8	72	6.4	33	-	R3		
9/3/21 5:00 PM	11.2	72	6.7	35	-	R3		
9/3/21 6:00 PM	11.3	72	6.5	33	-	R3		
9/3/21 7:00 PM	11.1	73	6.7	32	-	R3		
9/3/21 8:00 PM	10.7	75	6.7	30	-	R3		
9/3/21 9:00 PM	10.0	80	6.3	32	-	R3		
9/3/21 10:00 PM	9.1	82	4.7	43	-	R3		
9/3/21 11:00 PM	8.4	87	4.6	34	-	R3		
9/4/21 12:00 AM	7.6	91	5.1	38	-	R3		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
9/4/21 1:00 AM	7.3	92	4.5	44	-	R3		
9/4/21 2:00 AM	6.9	94	4.2	25	34.1	R3		
9/4/21 3:00 AM	6.3	100	5.0	35	-	R3		
9/4/21 4:00 AM	5.8	100	4.9	39	-	R3		
9/4/21 5:00 AM	5.9	100	5.1	49	-	R3		
9/4/21 6:00 AM	5.7	100	4.7	33	-	R3		
9/4/21 7:00 AM	5.4	100	3.5	29	33.4	R3		
9/4/21 8:00 AM	5.3	100	4.6	33	-	R3		
9/4/21 9:00 AM	5.2	100	3.9	41	32.1	R3		
9/4/21 10:00 AM	5.6	100	3.8	50	40.1	R3		
9/4/21 11:00 AM	5.5	100	3.1	40	32.6	R3		
9/4/21 12:00 PM	6.1	90	3.1	59	32.5	R3		
9/4/21 1:00 PM	7.0	84	2.4	36	28.7	R3		
9/4/21 2:00 PM	8.3	72	1.7	37	36.7	R3		
9/4/21 3:00 PM	9.6	68	1.4	196	42.8	R3		
9/4/21 4:00 PM	10.4	53	1.3	238	28.5	R3		
9/4/21 5:00 PM	11.1	42	0.2	202	34.5	R3		
9/4/21 6:00 PM	11.5	46	0.0	0	24.9	R3		
9/4/21 7:00 PM	11.5	53	0.0	0	24.9	R3		
9/4/21 8:00 PM	11.0	63	0.0	0	25.6	R3		
9/4/21 9:00 PM	9.8	80	0.0	0	32.6	R3		
9/4/21 10:00 PM	8.7	81	0.0	0	33.3	R3		
9/4/21 11:00 PM	7.9	85	0.0	0	36.0	R3		
9/5/21 12:00 AM	7.7	86	0.0	0	36.3	R3		
9/5/21 1:00 AM	7.3	88	0.0	0	34.5	R3		
9/5/21 2:00 AM	7.2	90	0.0	0	36.4	R3		
9/5/21 3:00 AM	6.9	87	0.0	0	33.6	R3		
9/5/21 4:00 AM	6.9	85	0.0	0	37.1	R3		
9/5/21 5:00 AM	7.1	86	0.0	0	38.7	R3		
9/5/21 6:00 AM	7.3	85	0.0	0	37.3	R3		
9/5/21 7:00 AM	7.1	89	0.0	0	38.4	R3		
9/5/21 8:00 AM	7.4	88	0.0	0	41.1	R3		
9/5/21 9:00 AM	8.1	86	0.0	0	38.9	R3		
9/5/21 10:00 AM	8.7	81	0.0	0	36.8	R3		
9/5/21 11:00 AM	9.5	77	0.0	0	35.9	R3		
9/5/21 12:00 PM	10.4	74	0.0	0	37.4	R3		
9/5/21 1:00 PM	11.4	69	0.0	0	40.8	R3		
9/5/21 2:00 PM	12.0	65	0.0	0	43.6	R3		

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	L_{eq} 1 h (dBA)	Station	L_{eq} 1 h (dBA)	Station
9/5/21 3:00 PM	12.6	64	3.3	185	46.3	R3		
9/5/21 4:00 PM	13.2	59	8.2	183	-	R3		
9/5/21 5:00 PM	13.8	57	8.5	177	-	R3		
9/5/21 6:00 PM	14.0	57	8.4	179	-	R3		
9/5/21 7:00 PM	13.8	56	8.0	174	-	R3		
9/5/21 8:00 PM	13.0	63	6.9	170	-	R3		
9/5/21 9:00 PM	11.6	72	5.0	163	-	R3		
9/5/21 10:00 PM	10.9	75	4.9	160	-	R3		
9/5/21 11:00 PM	10.5	81	4.6	151	-	R3		
9/6/21 12:00 AM	9.7	84	5.1	150	-	R3		
9/6/21 1:00 AM	9.6	86	5.3	152	-	R3		
9/6/21 2:00 AM	9.3	91	6.6	157	-	R3		

App. Table 2. Average hourly air temperature, relative humidity, wind speed, and wind direction for the Amaruq site weather station and valid calculated 1-h L_{eq} values. Those filtered out from analyses based on unacceptable weather conditions and set up/take down are excluded ("-"). Values filtered out on the basis of L90>30 dBA and no audible mine noise are shaded grey.

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/04/21 18:00	9.0	51	6.2	15	R8	-
7/04/21 19:00	8.8	53	6.6	14	R8	-
7/04/21 20:00	8.4	55	6.3	19	R8	-
7/04/21 21:00	7.9	52	6.0	20	R8	-
7/04/21 22:00	7.5	50	5.1	23	R8	-
7/04/21 23:00	7.1	61	4.3	21	R8	-
7/05/21 0:00	6.0	68	2.8	24	R8	18.7
7/05/21 1:00	4.8	72	2.5	15	R8	20.7
7/05/21 2:00	4.4	74	2.1	30	R8	22.6
7/05/21 3:00	4.1	76	1.3	44	R8	27.4
7/05/21 4:00	3.2	82	2.3	339	R8	26.4
7/05/21 5:00	3.2	81	2.0	308	R8	39.5
7/05/21 6:00	3.9	78	1.7	305	R8	40.6
7/05/21 7:00	5.0	73	1.2	298	R8	40.5
7/05/21 8:00	6.8	64	2.1	276	R8	36.7
7/05/21 9:00	9.1	52	3.0	265	R8	38.2
7/05/21 10:00	11.4	47	3.6	270	R8	40.1
7/05/21 11:00	12.4	41	5.4	260	R8	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/05/21 12:00	13.9	43	5.9	264	R8	-
7/05/21 13:00	14.6	43	6.8	265	R8	-
7/05/21 14:00	15.0	43	7.1	261	R8	-
7/05/21 15:00	15.9	40	7.9	264	R8	-
7/05/21 16:00	16.6	36	7.3	277	R8	-
7/05/21 17:00	16.9	38	6.6	298	R8	-
7/05/21 18:00	16.9	38	7.3	300	R8	-
7/05/21 19:00	16.8	39	6.6	300	R8	-
7/05/21 20:00	16.6	36	6.6	299	R8	-
7/05/21 21:00	16.6	38	5.5	300	R8	-
7/05/21 22:00	15.6	48	5.4	278	R8	-
7/05/21 23:00	13.2	56	5.4	267	R8	-
7/06/21 0:00	11.9	59	6.0	262	R8	-
7/06/21 1:00	10.9	59	7.6	259	R8	-
7/06/21 2:00	10.5	61	7.2	256	R8	-
7/06/21 3:00	9.4	63	5.9	255	R8	-
7/06/21 4:00	9.1	62	5.1	247	R8	-
7/06/21 5:00	9.0	64	4.9	246	R8	-
7/06/21 6:00	9.0	83	5.5	257	R8	-
7/06/21 7:00	8.8	77	4.4	238	R8	-
7/06/21 8:00	9.0	77	3.8	213	R8	48.6
7/06/21 9:00	9.7	73	5.5	224	R8	-
7/06/21 10:00	9.9	71	4.9	214	R8	-
7/06/21 11:00	9.8	77	4.5	221	R8	-
7/06/21 12:00	9.8	76	4.2	212	R8	-
7/06/21 13:00	11.1	71	4.7	212	R8	-
7/06/21 14:00	13.4	63	4.9	228	R8	-
7/06/21 15:00	16.2	61	5.1	276	R8	-
7/06/21 16:00	16.9	61	5.0	321	R8	-
7/06/21 17:00	17.4	53	4.2	325	R8	-
7/06/21 18:00	18.4	55	4.4	320	R8	-
7/06/21 19:00	17.6	57	4.0	309	R8	35.0
7/06/21 20:00	16.8	64	4.2	310	R8	37.4
7/06/21 21:00	15.7	67	3.2	317	R8	37.3
7/06/21 22:00	14.0	76	3.3	332	R8	38.8
7/06/21 23:00	12.3	76	4.1	358	R8	42.2
7/07/21 0:00	11.5	77	4.5	353	R8	-
7/07/21 1:00	10.4	82	5.7	4	R8	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/07/21 2:00	9.6	85	4.1	349	R8	37.3
7/07/21 3:00	8.4	88	4.0	323	R8	40.3
7/07/21 4:00	8.1	91	3.9	331	R8	38.9
7/07/21 5:00	7.5	97	4.2	329	R8	-
7/07/21 6:00	7.3	96	4.1	338	R8	39.4
7/07/21 7:00	8.0	81	4.2	337	R8	-
7/07/21 8:00	9.4	74	5.2	335	R8	-
7/08/21 11:00	14.4	40	3.4	339	R10	-
7/08/21 12:00	15.4	38	3.6	334	R10	38.8
7/08/21 13:00	16.1	34	3.9	327	R10	39.6
7/08/21 14:00	16.0	38	3.8	334	R10	43.3
7/08/21 15:00	16.9	36	3.6	332	R10	38.5
7/08/21 16:00	16.7	34	3.4	346	R10	38.7
7/08/21 17:00	16.8	33	3.0	359	R10	34.9
7/08/21 18:00	17.3	28	3.2	354	R10	40.1
7/08/21 19:00	17.4	28	2.5	355	R10	37.0
7/08/21 20:00	17.1	29	2.2	4	R10	36.1
7/08/21 21:00	16.7	29	1.8	38	R10	36.2
7/08/21 22:00	16.3	27	1.5	39	R10	35.5
7/08/21 23:00	15.3	34	1.8	69	R10	35.9
7/09/21 0:00	13.4	43	2.6	91	R10	36.0
7/09/21 1:00	12.2	43	1.8	105	R10	31.1
7/09/21 2:00	11.5	48	1.7	126	R10	31.3
7/09/21 3:00	11.1	52	1.6	136	R10	35.5
7/09/21 4:00	9.9	60	2.8	106	R10	39.2
7/09/21 5:00	9.7	56	2.7	137	R10	41.3
7/09/21 6:00	10.5	56	2.5	144	R10	39.4
7/09/21 7:00	10.8	60	3.3	136	R10	35.1
7/09/21 8:00	12.1	54	3.1	130	R10	37.3
7/09/21 9:00	14.8	46	3.1	153	R10	35.8
7/09/21 10:00	15.4	49	3.7	178	R10	35.7
7/09/21 11:00	16.7	50	4.0	181	R10	35.6
7/09/21 12:00	17.1	48	4.1	178	R10	35.1
7/09/21 13:00	19.3	38	4.3	197	R10	-
7/09/21 14:00	19.1	41	4.2	228	R10	-
7/09/21 15:00	18.2	49	4.2	236	R10	32.5
7/09/21 16:00	18.5	50	3.5	248	R10	29.8

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/09/21 17:00	18.1	58	2.8	222	R10	34.1
7/09/21 18:00	18.8	58	3.9	216	R10	38.6
7/09/21 19:00	18.9	68	4.5	243	R10	-
7/09/21 20:00	17.1	70	3.0	323	R10	39.8
7/09/21 21:00	16.0	80	3.5	321	R10	41.1
7/09/21 22:00	14.6	88	4.5	316	R10	-
7/09/21 23:00	13.1	89	3.5	325	R10	44.3
7/10/21 0:00	12.0	91	1.5	315	R10	44.3
7/10/21 1:00	10.9	95	0.3	264	R10	42.0
7/10/21 2:00	9.7	97	0.6	204	R10	41.9
7/10/21 3:00	9.4	97	0.6	176	R10	43.6
7/10/21 4:00	8.6	98	0.9	125	R10	45.4
7/10/21 5:00	8.5	98	1.6	122	R10	47.3
7/10/21 6:00	9.2	98	1.7	156	R10	50.6
7/10/21 7:00	11.5	87	2.0	178	R10	47.2
7/10/21 8:00	13.8	82	2.8	203	R10	41.6
7/10/21 9:00	15.9	73	3.1	207	R10	44.9
7/10/21 10:00	18.2	66	5.6	228	R10	-
7/10/21 11:00	20.4	57	6.9	236	R10	-
7/10/21 12:00	21.9	48	7.4	236	R10	-
7/10/21 13:00	22.3	48	7.8	230	R10	-
7/16/21 13:00	6.4	64	5.3	28	R11	-
7/16/21 14:00	6.9	62	5.7	21	R11	-
7/16/21 15:00	7.6	57	6.1	18	R11	-
7/16/21 16:00	8.0	61	5.6	13	R11	-
7/16/21 17:00	8.1	64	5.3	6	R11	-
7/16/21 18:00	8.6	60	5.1	353	R11	-
7/16/21 19:00	8.8	56	6.1	5	R11	-
7/16/21 20:00	8.7	63	5.9	3	R11	-
7/16/21 21:00	8.7	62	5.9	1	R11	-
7/16/21 22:00	8.6	65	4.8	349	R11	-
7/16/21 23:00	7.5	72	4.2	347	R11	-
7/17/21 0:00	6.7	79	3.2	345	R11	26.5
7/17/21 1:00	6.6	72	3.8	353	R11	23.5
7/17/21 2:00	6.6	79	3.0	336	R11	18.7
7/17/21 3:00	5.8	85	2.5	317	R11	19.7
7/17/21 4:00	5.8	82	2.4	302	R11	26.0

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/17/21 5:00	6.0	82	2.8	297	R11	32.1
7/17/21 6:00	6.4	78	4.1	303	R11	33.2
7/17/21 7:00	6.7	77	3.8	313	R11	28.0
7/17/21 8:00	7.4	73	2.7	309	R11	27.9
7/17/21 9:00	9.7	60	2.2	298	R11	33.7
7/17/21 10:00	10.8	63	2.8	301	R11	37.5
7/17/21 11:00	11.4	60	3.6	299	R11	33.8
7/17/21 12:00	12.6	55	4.8	285	R11	-
7/17/21 13:00	12.6	62	4.7	274	R11	-
7/17/21 14:00	12.8	53	4.9	272	R11	-
7/17/21 15:00	14.0	77	3.9	311	R11	43.3
7/17/21 16:00	11.4	79	2.3	333	R11	48.2
7/17/21 17:00	11.1	79	5.4	341	R11	-
7/17/21 18:00	10.1	76	6.5	349	R11	-
7/17/21 19:00	9.7	71	5.6	346	R11	-
7/17/21 20:00	9.3	63	6.1	348	R11	-
7/17/21 21:00	8.8	71	6.1	349	R11	-
7/17/21 22:00	8.2	69	5.0	341	R11	-
7/17/21 23:00	8.0	72	4.3	309	R11	-
7/18/21 0:00	7.6	77	4.1	292	R11	28.1
7/18/21 1:00	6.7	80	4.6	279	R11	-
7/18/21 2:00	6.2	79	5.8	280	R11	-
7/18/21 3:00	5.7	84	6.3	274	R11	-
7/18/21 4:00	5.3	86	5.5	275	R11	-
7/18/21 5:00	5.7	79	5.2	274	R11	-
7/18/21 6:00	7.6	75	5.7	275	R11	-
7/18/21 7:00	9.6	63	4.3	280	R11	-
7/18/21 8:00	12.0	68	3.3	287	R11	35.2
7/18/21 9:00	10.5	70	2.9	300	R11	38.2
7/18/21 10:00	10.7	69	3.7	302	R11	37.4
7/18/21 11:00	11.2	71	3.0	305	R11	27.9
7/18/21 12:00	12.3	67	3.5	269	R11	31.5
7/18/21 13:00	14.0	63	4.0	270	R11	31.6
7/18/21 14:00	14.7	58	4.5	271	R11	-
7/18/21 15:00	15.9	55	4.2	274	R11	-
7/18/21 16:00	17.1	52	5.8	284	R11	-
7/18/21 17:00	16.2	59	5.8	299	R11	-
7/18/21 18:00	14.6	61	5.8	300	R11	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/18/21 19:00	14.7	62	4.2	299	R11	28.2
7/18/21 20:00	14.9	62	4.1	296	R11	26.2
7/18/21 21:00	14.5	68	3.6	298	R11	26.5
7/18/21 22:00	13.8	67	4.4	302	R11	-
7/18/21 23:00	13.1	71	3.6	312	R11	22.0
7/19/21 0:00	11.9	77	3.1	314	R11	23.6
7/19/21 1:00	11.4	77	2.2	304	R11	21.3
7/19/21 2:00	10.7	82	1.5	286	R11	30.0
7/19/21 3:00	10.6	80	1.9	268	R11	30.8
7/19/21 4:00	10.3	85	1.4	267	R11	21.6
7/19/21 5:00	10.2	78	2.1	253	R11	21.9
7/19/21 6:00	12.9	62	1.9	271	R11	22.8
7/19/21 7:00	15.9	59	1.7	269	R11	30.8
7/19/21 8:00	17.4	54	1.7	287	R11	31.8
7/19/21 9:00	19.4	49	2.2	286	R11	33.8
7/19/21 10:00	19.8	47	3.2	288	R11	34.3
7/19/21 11:00	21.9	40	3.6	292	R11	36.5
7/19/21 12:00	23.6	33	3.7	289	R11	35.1
7/19/21 13:00	24.1	34	4.5	286	R11	-
7/19/21 14:00	24.0	36	5.5	270	R11	-
7/19/21 15:00	24.1	33	6.2	294	R11	-
7/21/21 8:00	11.1	76	4.5	313	R9	-
7/21/21 9:00	13.4	71	5.1	325	R9	-
7/21/21 10:00	14.1	73	4.9	305	R9	-
7/21/21 11:00	14.3	66	5.0	305	R9	-
7/21/21 12:00	17.3	56	4.6	297	R9	-
7/21/21 13:00	19.2	53	4.4	289	R9	-
7/21/21 14:00	19.6	50	3.7	284	R9	42.3
7/21/21 15:00	19.5	52	4.1	280	R9	42.0
7/21/21 16:00	20.4	49	5.1	256	R9	-
7/21/21 17:00	20.4	51	4.6	262	R9	-
7/21/21 18:00	20.4	49	5.6	260	R9	-
7/21/21 19:00	20.1	53	6.5	253	R9	-
7/21/21 20:00	18.8	55	7.4	243	R9	-
7/21/21 21:00	17.7	59	6.9	236	R9	-
7/21/21 22:00	16.8	65	5.8	226	R9	-
7/21/21 23:00	15.6	72	4.8	224	R9	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/22/21 0:00	14.4	76	4.2	219	R9	-
7/22/21 1:00	13.8	75	5.8	223	R9	-
7/22/21 2:00	13.4	76	6.4	227	R9	-
7/22/21 3:00	12.6	80	5.6	228	R9	-
7/22/21 4:00	11.8	83	5.0	227	R9	-
7/22/21 5:00	11.8	79	4.7	224	R9	-
7/22/21 6:00	13.5	70	3.9	232	R9	48.0
7/22/21 7:00	14.7	69	5.3	234	R9	-
7/22/21 8:00	15.8	64	5.8	233	R9	-
7/22/21 9:00	17.1	62	6.4	230	R9	-
7/22/21 10:00	18.5	57	7.1	234	R9	-
7/22/21 11:00	20.4	53	7.1	232	R9	-
7/22/21 12:00	21.6	51	8.0	229	R9	-
7/22/21 13:00	23.1	45	7.9	238	R9	-
7/22/21 14:00	23.4	42	7.5	233	R9	-
7/22/21 15:00	23.8	42	7.5	227	R9	-
7/22/21 16:00	23.5	44	7.4	212	R9	-
7/22/21 17:00	23.4	47	6.8	220	R9	-
7/22/21 18:00	23.3	52	6.8	221	R9	-
7/22/21 19:00	22.3	59	6.2	210	R9	-
7/22/21 20:00	21.2	67	5.5	208	R9	-
7/22/21 21:00	20.0	69	4.7	209	R9	-
7/22/21 22:00	19.0	75	4.2	200	R9	29.4
7/22/21 23:00	17.8	78	3.8	188	R9	28.5
7/23/21 0:00	17.0	80	4.3	194	R9	-
7/23/21 1:00	16.3	82	2.4	183	R9	34.4
7/23/21 2:00	16.2	86	3.9	168	R9	23.7
7/23/21 3:00	15.5	95	2.4	192	R9	31.5
7/23/21 4:00	15.0	97	2.5	153	R9	35.6
7/23/21 5:00	14.8	98	3.4	130	R9	35.5
7/23/21 6:00	14.4	98	4.6	122	R9	-
7/23/21 7:00	14.1	97	5.1	136	R9	-
7/23/21 8:00	13.8	98	4.9	148	R9	-
7/23/21 9:00	13.5	98	4.0	133	R9	34.8
7/23/21 10:00	14.0	98	3.2	65	R9	38.1
7/23/21 11:00	14.3	98	4.8	65	R9	-
7/23/21 12:00	14.2	97	6.3	91	R9	-
7/23/21 13:00	13.3	98	5.5	104	R9	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/23/21 14:00	13.5	94	6.0	79	R9	-
7/23/21 15:00	14.4	91	5.8	63	R9	-
7/23/21 16:00	14.2	90	5.4	66	R9	-
7/23/21 17:00	13.6	97	4.2	57	R9	-
7/23/21 18:00	13.4	97	4.0	60	R9	38.4
7/23/21 19:00	13.5	96	3.3	59	R9	40.2
7/23/21 20:00	13.6	93	3.4	52	R9	38.7
7/23/21 21:00	13.7	92	4.2	47	R9	-
7/23/21 22:00	13.7	94	4.5	35	R9	-
7/23/21 23:00	13.3	92	5.7	1	R9	-
7/24/21 0:00	10.9	94	10.8	7	R9	-
7/24/21 1:00	9.0	95	11.0	3	R9	-
7/24/21 2:00	7.4	97	11.2	2	R9	-
7/24/21 3:00	6.5	97	10.7	358	R9	-
7/24/21 4:00	5.8	97	10.6	356	R9	-
7/24/21 5:00	5.3	96	10.6	347	R9	-
7/24/21 6:00	4.9	96	10.6	346	R9	-
7/24/21 7:00	4.7	95	10.0	348	R9	-
7/24/21 8:00	4.7	94	10.8	352	R9	-
7/30/21 16:00	13.0	66	5.0	190	R8	-
7/30/21 17:00	12.9	67	5.9	180	R8	-
7/30/21 18:00	12.7	66	5.9	180	R8	-
7/30/21 19:00	12.6	66	5.6	206	R8	-
7/30/21 20:00	11.7	82	6.0	199	R8	-
7/30/21 21:00	10.5	91	6.5	184	R8	-
7/30/21 22:00	9.8	95	7.3	196	R8	-
7/30/21 23:00	8.8	95	8.0	191	R8	-
7/31/21 0:00	8.4	96	7.9	194	R8	-
7/31/21 1:00	8.3	96	8.4	204	R8	-
7/31/21 2:00	8.6	97	7.2	218	R8	-
7/31/21 3:00	8.9	98	5.7	269	R8	-
7/31/21 4:00	8.6	97	8.1	332	R8	-
7/31/21 5:00	7.7	94	8.8	335	R8	-
7/31/21 6:00	6.4	94	7.2	347	R8	-
7/31/21 7:00	5.5	93	7.3	345	R8	-
7/31/21 8:00	5.3	89	6.7	348	R8	-
7/31/21 9:00	5.7	82	6.3	351	R8	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
7/31/21 10:00	6.8	77	5.7	352	R8	-
7/31/21 11:00	7.9	71	5.3	339	R8	-
7/31/21 12:00	8.8	64	5.0	337	R8	-
7/31/21 13:00	11.0	59	5.1	329	R8	-
7/31/21 14:00	11.7	59	4.4	331	R8	-
7/31/21 15:00	12.2	53	4.1	328	R8	32.0
7/31/21 16:00	13.2	53	3.2	310	R8	32.6
7/31/21 17:00	13.3	48	2.9	292	R8	33.2
7/31/21 18:00	12.8	52	2.6	274	R8	33.4
7/31/21 19:00	12.1	50	3.8	255	R8	36.8
7/31/21 20:00	11.6	64	3.8	241	R8	40.9
7/31/21 21:00	10.8	64	4.0	220	R8	42.3
7/31/21 22:00	9.9	76	3.9	195	R8	45.7
7/31/21 23:00	8.8	86	4.2	175	R8	44.7
8/01/21 0:00	8.3	86	4.3	157	R8	-
8/01/21 1:00	8.4	85	4.4	155	R8	-
8/01/21 2:00	8.4	85	4.3	161	R8	-
8/01/21 3:00	8.2	91	5.3	176	R8	-
8/01/21 4:00	8.1	92	4.9	183	R8	-
8/01/21 5:00	8.4	93	4.2	193	R8	-
8/01/21 6:00	8.7	95	1.9	248	R8	40.2
8/01/21 7:00	9.2	95	2.5	262	R8	40.9
8/01/21 8:00	10.0	96	3.1	299	R8	42.1
8/01/21 9:00	11.3	96	4.7	314	R8	-
8/01/21 10:00	11.8	96	6.4	316	R8	-
8/01/21 11:00	11.5	91	7.6	320	R8	-
8/01/21 12:00	10.7	94	8.9	320	R8	-
8/01/21 13:00	9.8	93	9.5	338	R8	-
8/01/21 14:00	9.7	85	10.0	355	R8	-
8/01/21 15:00	9.9	82	12.1	6	R8	-
8/01/21 16:00	10.0	79	11.2	10	R8	-
8/01/21 17:00	9.9	77	12.1	11	R8	-
8/01/21 18:00	9.4	73	9.9	11	R8	-
8/01/21 19:00	9.0	74	6.9	19	R8	-
8/01/21 20:00	8.6	77	6.5	17	R8	-
8/01/21 21:00	8.3	75	6.7	7	R8	-
8/01/21 22:00	7.9	73	6.5	11	R8	-
8/01/21 23:00	7.6	76	4.6	14	R8	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/02/21 0:00	7.3	77	2.0	32	R8	20.4
8/02/21 1:00	6.8	80	1.4	26	R8	32.2
8/02/21 2:00	5.8	87	1.4	326	R8	34.8
8/02/21 3:00	4.9	95	0.8	269	R8	37.8
8/02/21 4:00	4.8	94	1.2	249	R8	42.2
8/02/21 5:00	5.3	92	1.7	236	R8	41.9
8/02/21 6:00	5.3	94	2.6	244	R8	44.9
8/02/21 7:00	6.5	86	3.4	241	R8	43.9
8/02/21 8:00	7.5	84	4.2	227	R8	-
8/02/21 9:00	7.8	86	5.8	223	R8	-
8/02/21 10:00	7.6	89	7.2	204	R8	-
8/02/21 11:00	7.6	88	8.4	204	R8	-
8/02/21 12:00	8.1	90	9.4	203	R8	-
8/05/21 16:00	7.8	66	10.3	328	R10	-
8/05/21 17:00	8.0	70	10.0	329	R10	-
8/05/21 18:00	7.6	73	9.4	333	R10	-
8/05/21 19:00	7.5	73	9.3	337	R10	-
8/05/21 20:00	6.8	78	8.7	342	R10	-
8/05/21 21:00	6.5	77	7.9	337	R10	-
8/05/21 22:00	6.1	79	7.4	336	R10	-
8/05/21 23:00	5.9	80	6.8	335	R10	-
8/06/21 0:00	5.6	83	6.8	324	R10	-
8/06/21 1:00	5.1	86	7.0	320	R10	-
8/06/21 2:00	3.9	91	6.0	332	R10	-
8/06/21 3:00	2.9	94	4.5	337	R10	-
8/06/21 4:00	2.7	93	5.7	335	R10	-
8/06/21 5:00	2.4	95	6.0	338	R10	-
8/06/21 6:00	2.3	92	5.9	324	R10	-
8/06/21 7:00	2.7	93	6.1	326	R10	-
8/06/21 8:00	3.1	92	4.3	329	R10	-
8/06/21 9:00	3.7	82	4.0	307	R10	42.2
8/06/21 10:00	6.3	75	3.3	300	R10	41.6
8/06/21 11:00	8.5	68	3.0	306	R10	40.3
8/06/21 12:00	10.0	66	3.9	318	R10	38.2
8/06/21 13:00	11.1	65	3.8	289	R10	36.4
8/06/21 14:00	11.2	64	3.9	259	R10	45.9
8/06/21 15:00	11.8	65	3.3	252	R10	43.0

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/06/21 16:00	11.8	67	4.2	230	R10	-
8/06/21 17:00	12.0	67	4.8	235	R10	-
8/06/21 18:00	11.7	69	4.9	227	R10	-
8/06/21 19:00	11.6	73	4.4	221	R10	-
8/06/21 20:00	11.5	73	3.7	208	R10	45.2
8/06/21 21:00	11.2	78	3.7	191	R10	45.8
8/06/21 22:00	10.7	77	3.8	185	R10	46.5
8/06/21 23:00	10.5	78	3.4	189	R10	45.5
8/07/21 0:00	10.4	80	4.2	204	R10	-
8/07/21 1:00	10.2	79	4.4	211	R10	-
8/07/21 2:00	10.2	81	4.5	207	R10	-
8/07/21 3:00	10.0	82	4.4	213	R10	-
8/07/21 4:00	9.8	81	3.9	213	R10	48.2
8/07/21 5:00	9.8	83	4.3	204	R10	-
8/07/21 6:00	9.9	81	4.1	202	R10	49.4
8/07/21 7:00	10.0	81	3.7	205	R10	47.8
8/07/21 8:00	10.4	79	4.4	209	R10	-
8/07/21 9:00	11.2	74	4.9	208	R10	-
8/07/21 10:00	12.4	72	4.3	206	R10	-
8/07/21 11:00	13.4	66	5.2	215	R10	-
8/07/21 12:00	15.3	60	4.9	216	R10	-
8/07/21 13:00	17.6	56	4.7	210	R10	-
8/07/21 14:00	18.4	54	5.1	213	R10	-
8/07/21 15:00	18.1	59	5.5	234	R10	-
8/14/21 14:00	7.6	61	3.6	359	R11	-
8/14/21 15:00	8.3	60	4.3	4	R11	-
8/14/21 16:00	9.2	59	3.2	22	R11	30.4
8/14/21 17:00	9.4	61	2.8	46	R11	27.9
8/14/21 18:00	9.4	61	2.7	48	R11	30.2
8/14/21 19:00	9.4	63	2.5	58	R11	31.1
8/14/21 20:00	9.1	66	3.4	61	R11	31.7
8/14/21 21:00	8.5	69	3.1	49	R11	30.1
8/14/21 22:00	8.0	69	3.0	54	R11	28.8
8/14/21 23:00	7.5	74	3.7	64	R11	28.5
8/15/21 0:00	7.1	76	2.7	64	R11	28.6
8/15/21 1:00	6.7	78	2.0	46	R11	28.7
8/15/21 2:00	6.0	80	2.1	32	R11	29.2

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/15/21 3:00	4.6	87	2.3	19	R11	29.0
8/15/21 4:00	3.9	90	2.1	30	R11	30.3
8/15/21 5:00	3.1	94	2.0	23	R11	30.2
8/15/21 6:00	2.6	95	2.5	18	R11	29.8
8/15/21 7:00	3.8	86	2.0	18	R11	34.8
8/15/21 8:00	5.8	80	1.7	1	R11	38.9
8/15/21 9:00	6.8	82	4.1	358	R11	44.3
8/15/21 10:00	7.1	79	5.4	359	R11	-
8/15/21 11:00	8.3	76	5.7	357	R11	-
8/15/21 12:00	9.0	65	6.4	6	R11	-
8/15/21 13:00	9.6	64	6.7	7	R11	-
8/15/21 14:00	10.1	62	6.1	12	R11	-
8/15/21 15:00	10.7	59	6.9	6	R11	-
8/15/21 16:00	11.1	56	7.2	6	R11	-
8/15/21 17:00	11.1	57	7.1	5	R11	-
8/15/21 18:00	11.1	59	6.9	359	R11	-
8/15/21 19:00	10.6	61	6.2	2	R11	-
8/15/21 20:00	10.1	65	5.9	357	R11	-
8/15/21 21:00	9.2	66	4.7	355	R11	-
8/15/21 22:00	7.8	76	4.3	347	R11	-
8/15/21 23:00	6.7	79	4.5	355	R11	-
8/16/21 0:00	6.2	83	3.4	349	R11	29.3
8/16/21 1:00	5.6	88	3.4	345	R11	30.0
8/16/21 2:00	4.8	92	3.7	347	R11	30.6
8/16/21 3:00	3.8	96	3.1	347	R11	34.4
8/16/21 4:00	3.3	99	3.8	354	R11	32.8
8/16/21 5:00	3.4	100	4.0	6	R11	32.5
8/16/21 6:00	3.3	96	4.3	14	R11	-
8/16/21 7:00	3.1	94	3.5	16	R11	27.4
8/16/21 8:00	3.5	90	3.5	11	R11	27.4
8/16/21 9:00	4.7	83	2.7	15	R11	30.1
8/16/21 10:00	6.2	78	2.2	23	R11	33.3
8/16/21 11:00	6.7	71	3.0	18	R11	35.1
8/16/21 12:00	7.2	72	3.5	21	R11	33.0
8/16/21 13:00	7.3	73	3.9	14	R11	32.7
8/16/21 14:00	7.2	67	3.6	15	R11	33.8
8/16/21 15:00	7.5	72	3.6	21	R11	33.4
8/16/21 16:00	7.4	70	4.2	12	R11	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/16/21 17:00	7.3	69	3.6	23	R11	33.6
8/16/21 18:00	7.3	70	3.3	30	R11	33.9
8/16/21 19:00	7.4	68	3.4	46	R11	31.7
8/16/21 20:00	6.9	74	4.0	56	R11	27.0
8/16/21 21:00	6.2	78	3.1	56	R11	28.0
8/16/21 22:00	5.5	82	2.3	40	R11	35.1
8/16/21 23:00	4.6	85	2.6	38	R11	36.9
8/17/21 0:00	4.0	87	3.0	47	R11	35.4
8/17/21 1:00	3.7	87	3.1	47	R11	43.2
8/17/21 2:00	3.8	88	3.9	56	R11	42.1
8/17/21 3:00	3.6	90	4.5	74	R11	-
8/17/21 4:00	3.5	92	4.4	91	R11	-
8/17/21 5:00	3.8	92	3.5	93	R11	40.3
8/17/21 6:00	4.3	90	4.7	98	R11	-
8/17/21 7:00	4.8	90	3.8	105	R11	42.2
8/17/21 8:00	5.2	90	3.8	103	R11	37.6
8/17/21 9:00	6.1	85	4.6	116	R11	-
8/17/21 10:00	7.2	82	5.7	132	R11	-
8/17/21 11:00	8.2	75	5.4	136	R11	-
8/17/21 12:00	8.9	75	4.9	139	R11	-
8/17/21 13:00	9.0	69	4.0	121	R11	-
8/18/21 8:00	6.6	85	0.1	228	R9	-
8/18/21 9:00	9.0	78	0.5	226	R9	40.5
8/18/21 10:00	10.8	62	0.9	235	R9	31.4
8/18/21 11:00	13.3	57	2.5	247	R9	30.1
8/18/21 12:00	13.3	57	2.7	225	R9	27.2
8/18/21 13:00	13.3	56	2.9	220	R9	28.9
8/18/21 14:00	13.9	54	2.7	222	R9	30.1
8/18/21 15:00	13.9	51	2.7	229	R9	32.7
8/18/21 16:00	13.9	50	2.5	222	R9	35.0
8/18/21 17:00	14.0	50	3.1	222	R9	32.8
8/18/21 18:00	13.9	54	3.9	231	R9	32.9
8/18/21 19:00	13.3	55	3.9	228	R9	31.2
8/18/21 20:00	12.7	61	3.6	227	R9	29.7
8/18/21 21:00	11.4	70	3.6	206	R9	28.6
8/18/21 22:00	9.7	74	3.6	193	R9	31.4
8/18/21 23:00	8.4	82	3.6	188	R9	38.3

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/19/21 0:00	7.7	88	4.0	193	R9	38.9
8/19/21 1:00	7.5	88	3.8	202	R9	38.6
8/19/21 2:00	7.3	90	3.0	214	R9	38.1
8/19/21 3:00	6.7	92	2.3	227	R9	40.5
8/19/21 4:00	6.5	92	2.8	223	R9	38.8
8/19/21 5:00	6.4	92	3.7	219	R9	33.1
8/19/21 6:00	5.8	92	3.0	243	R9	28.7
8/19/21 7:00	7.3	84	2.7	239	R9	32.0
8/19/21 8:00	8.6	83	2.5	230	R9	34.5
8/19/21 9:00	10.2	75	3.1	231	R9	40.7
8/19/21 10:00	11.3	74	3.7	229	R9	43.8
8/19/21 11:00	12.1	66	5.0	223	R9	-
8/19/21 12:00	13.1	63	6.0	217	R9	-
8/19/21 13:00	13.2	58	6.7	216	R9	-
8/19/21 14:00	13.5	58	6.6	210	R9	-
8/19/21 15:00	13.6	57	6.5	215	R9	-
8/19/21 16:00	13.7	59	6.7	212	R9	-
8/19/21 17:00	13.0	64	6.5	212	R9	-
8/19/21 18:00	12.5	65	6.4	219	R9	-
8/19/21 19:00	11.8	68	5.8	212	R9	-
8/19/21 20:00	11.3	69	5.3	206	R9	-
8/19/21 21:00	10.9	71	5.4	207	R9	-
8/19/21 22:00	10.4	73	4.6	208	R9	-
8/19/21 23:00	10.1	75	4.6	197	R9	-
8/20/21 0:00	9.6	79	4.4	184	R9	-
8/20/21 1:00	9.1	82	4.1	178	R9	32.1
8/20/21 2:00	8.7	83	4.0	172	R9	32.1
8/20/21 3:00	8.5	84	3.7	168	R9	33.2
8/20/21 4:00	8.4	81	3.6	163	R9	34.5
8/20/21 5:00	8.2	87	3.4	143	R9	34.8
8/20/21 6:00	8.0	88	3.9	140	R9	36.3
8/20/21 7:00	8.1	90	4.7	137	R9	-
8/20/21 8:00	8.2	92	4.5	148	R9	-
8/20/21 9:00	8.3	96	4.5	150	R9	-
8/20/21 10:00	8.9	91	4.6	163	R9	-
8/20/21 11:00	9.7	83	5.1	158	R9	-
8/20/21 12:00	9.5	85	6.0	145	R9	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/23/21 17:00	11.0	52	8.7	335	R7	-
8/23/21 18:00	11.4	51	8.3	332	R7	-
8/23/21 19:00	11.1	51	6.8	340	R7	-
8/23/21 20:00	10.5	58	6.1	343	R7	-
8/23/21 21:00	9.5	66	4.4	338	R7	-
8/23/21 22:00	7.7	76	2.5	324	R7	-
8/23/21 23:00	6.2	83	1.5	321	R7	27.4
8/24/21 0:00	5.5	85	1.7	330	R7	30.5
8/24/21 1:00	4.6	89	2.2	303	R7	29.6
8/24/21 2:00	4.5	88	2.2	306	R7	28.5
8/24/21 3:00	4.3	89	2.1	308	R7	34.3
8/24/21 4:00	4.2	90	2.3	311	R7	31.2
8/24/21 5:00	3.5	94	1.7	273	R7	33.3
8/24/21 6:00	3.6	91	3.0	277	R7	37.4
8/24/21 7:00	4.7	85	2.4	273	R7	36.9
8/24/21 8:00	4.5	87	2.9	267	R7	38.3
8/24/21 9:00	9.0	67	1.5	280	R7	40.3
8/24/21 10:00	11.8	54	2.4	259	R7	44.6
8/24/21 11:00	14.6	51	3.9	261	R7	47.6
8/24/21 12:00	15.7	50	5.6	292	R7	-
8/24/21 13:00	15.8	51	6.9	303	R7	-
8/24/21 14:00	15.7	50	7.1	303	R7	-
8/24/21 15:00	16.1	46	6.6	298	R7	-
8/24/21 16:00	16.1	50	5.3	315	R7	-
8/24/21 17:00	15.7	49	5.1	328	R7	-
8/24/21 18:00	16.1	45	4.9	302	R7	-
8/24/21 19:00	15.4	62	5.4	313	R7	29.1
8/24/21 20:00	13.2	64	3.1	360	R7	-
8/24/21 21:00	12.8	66	2.0	291	R7	34.4
8/24/21 22:00	11.7	72	2.1	266	R7	30.6
8/24/21 23:00	9.8	76	1.0	260	R7	30.4
8/25/21 0:00	9.4	80	2.6	354	R7	32.8
8/25/21 1:00	9.1	81	1.3	42	R7	35.2
8/25/21 2:00	8.1	88	0.4	59	R7	37.8
8/25/21 3:00	6.2	95	0.7	209	R7	31.2
8/25/21 4:00	5.8	93	0.7	231	R7	32.9
8/25/21 5:00	5.8	94	0.5	154	R7	37.0
8/25/21 6:00	5.0	97	0.9	213	R7	39.3

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
8/25/21 7:00	6.1	88	0.8	191	R7	37.9
8/25/21 8:00	9.2	78	0.9	198	R7	37.3
8/25/21 9:00	10.6	78	3.0	220	R7	31.6
8/25/21 10:00	11.4	75	3.4	210	R7	37.0
8/25/21 11:00	13.0	66	4.1	220	R7	42.1
8/25/21 12:00	14.1	60	6.0	236	R7	-
8/25/21 13:00	15.9	53	5.3	250	R7	-
8/25/21 14:00	16.7	49	5.6	239	R7	-
8/25/21 15:00	16.8	46	6.7	237	R7	-
8/25/21 16:00	17.1	45	7.0	234	R7	-
8/25/21 17:00	16.5	45	7.8	224	R7	-
8/25/21 18:00	16.0	51	6.3	216	R7	-
8/25/21 19:00	15.5	54	6.0	207	R7	-
8/25/21 20:00	14.9	60	5.1	195	R7	-
8/25/21 21:00	14.4	68	4.7	189	R7	-
8/25/21 22:00	12.4	76	4.6	174	R7	-
8/25/21 23:00	11.9	77	4.7	184	R7	-
8/26/21 0:00	12.2	76	4.7	194	R7	-
8/26/21 1:00	12.0	77	2.9	219	R7	-
8/26/21 2:00	11.9	79	2.7	223	R7	-
8/26/21 3:00	11.5	78	2.3	229	R7	-
8/26/21 4:00	11.7	78	4.4	235	R7	-
8/26/21 5:00	10.6	85	3.7	229	R7	-
8/26/21 6:00	9.7	87	1.9	225	R7	37.7
8/26/21 7:00	10.3	79	3.1	242	R7	42.9
8/26/21 8:00	12.5	74	3.4	242	R7	42.9
8/26/21 9:00	14.3	72	3.7	261	R7	37.5
8/26/21 10:00	15.1	64	4.5	268	R7	34.0
8/26/21 11:00	17.7	57	4.2	261	R7	-
8/26/21 12:00	19.7	53	4.1	257	R7	34.9
8/26/21 13:00	20.4	54	3.7	273	R7	-
9/11/21 15:00	6.2	85	3.4	133	R8	-
9/11/21 16:00	6.5	84	3.3	145	R8	32.1
9/11/21 17:00	6.6	83	3.3	147	R8	32.6
9/11/21 18:00	6.8	82	3.1	156	R8	31.5
9/11/21 19:00	6.8	83	3.0	155	R8	33.1
9/11/21 20:00	6.5	85	2.9	145	R8	35.6

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
9/11/21 21:00	6.1	86	3.0	147	R8	42.1
9/11/21 22:00	5.8	88	2.8	146	R8	41.5
9/11/21 23:00	5.6	89	2.9	157	R8	40.2
9/12/21 0:00	5.5	92	2.9	169	R8	39.6
9/12/21 1:00	5.6	91	2.8	189	R8	41.0
9/12/21 2:00	5.7	96	3.6	195	R8	42.7
9/12/21 3:00	5.4	98	4.3	197	R8	-
9/12/21 4:00	5.4	95	5.2	204	R8	-
9/12/21 5:00	5.4	97	5.1	215	R8	-
9/12/21 6:00	5.4	97	4.0	228	R8	40.2
9/12/21 7:00	5.2	98	3.5	249	R8	42.2
9/12/21 8:00	4.9	97	2.9	268	R8	42.9
9/12/21 9:00	5.0	95	3.0	269	R8	38.8
9/12/21 10:00	5.9	89	2.9	269	R8	37.8
9/12/21 11:00	6.6	85	3.0	256	R8	36.9
9/12/21 12:00	8.0	80	2.5	253	R8	35.7
9/12/21 13:00	8.2	75	3.3	263	R8	34.5
9/12/21 14:00	8.8	71	3.4	269	R8	37.2
9/12/21 15:00	9.5	71	3.4	247	R8	36.0
9/12/21 16:00	9.0	73	3.7	233	R8	35.1
9/12/21 17:00	9.1	72	3.3	232	R8	32.5
9/12/21 18:00	8.6	72	3.4	230	R8	40.8
9/12/21 19:00	8.6	74	3.1	237	R8	40.6
9/12/21 20:00	7.3	86	3.4	208	R8	45.3
9/12/21 21:00	6.1	89	2.1	170	R8	44.6
9/12/21 22:00	6.2	91	3.1	161	R8	46.0
9/12/21 23:00	5.7	86	3.9	196	R8	45.0
9/13/21 0:00	4.4	90	4.1	197	R8	41.2
9/13/21 1:00	4.0	90	3.8	195	R8	45.9
9/13/21 2:00	3.7	91	3.8	183	R8	46.9
9/13/21 3:00	3.2	95	3.9	165	R8	45.7
9/13/21 4:00	2.8	96	3.9	160	R8	43.8
9/13/21 5:00	2.8	96	4.4	157	R8	-
9/13/21 6:00	2.9	97	4.4	149	R8	-
9/13/21 7:00	3.2	97	5.2	147	R8	-
9/13/21 8:00	3.9	97	5.7	152	R8	-
9/13/21 9:00	4.4	96	7.1	151	R8	-
9/13/21 10:00	4.8	94	7.8	152	R8	-

Date and Time	Avg. Air Temp. (°C)	Avg. Relative Humidity (%)	Avg. Wind Speed (m/s)	Avg. Wind Dir. (°)	Station	L_{eq} 1 h (dBA)
9/13/21 11:00	4.9	94	7.7	154	R8	-
9/13/21 12:00	4.7	93	8.0	152	R8	-
9/13/21 13:00	4.8	93	8.9	139	R8	-

APPENDIX C

Field Logs

MONITORING STARTS

Operator: Kathleen Newberry	Location: R1
Date: 2021-07-04	Noise Meter Start Time: 14:45
Calibration complete ?: Y	Sensitivity: 51.82
Deviation: -0.03	Time of Calibration: 14:42
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

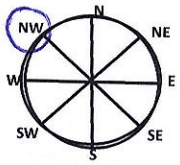
Cloud cover: cloudy | partly cloudy | (sunny)

Height of cloud (feet): 0-10,000 | 10,000-25,000 | (25,000 +)

Air Temperature (C): 7°C

Wind Speed (km/hr): 15 km/h

Wind Direction: NW



Barometric Pressure (kPa): 102.4

Relative Humidity (%) 53

Precipitation: (none) | drizzle | rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
14W	0636151	721733	642 ft

Type of Ground Surface:

Acoustic Environment:
- Traffic: Water - Lake, AMAR - Road
- Human activities
- Animal: • Helicopter • Wildlife
- Other noise sources: • EMR

MONITORING ENDS

Operator: Louis Dubois	Total Monitoring Period 71h 10m
Date: 2021-07-07	Noise Meter End Time: 14h50
Calibration complete ?: Yes	Sensitivity: 51,70
Deviation -0,02	Time of Calibration: 15h52

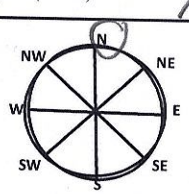
Cloud cover: cloudy | (partly cloudy) | sunny

Height of cloud (feet): (0-10,000) | 10,000-25,000 | 25,000 +

Air Temperature (C): 13°C

Wind Speed (km/hr): 7 km/h

Wind Direction: North



Barometric Pressure (kPa):

Relative Humidity (%) 56,7

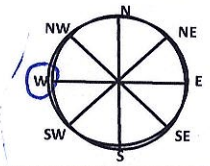
Precipitation: (none) | drizzle | rain

Comments: Some occasional Rain event during those 3 days

MONITORING STARTS

Operator: Nicolas Saucier Kathleen N.	Location: R1
Date: 2021-08-23	Noise Meter Start Time: 14 ~~:08~~ 13
Calibration complete ?: Y	Sensitivity: 52.15
Deviation: 0.01 dB	Time of Calibration: 14:00
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 10.5	Wind Speed (km/hr): 25
Wind Direction:	

Barometric Pressure (kPa): 100.8.	Relative Humidity (%) 67.3 %.

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

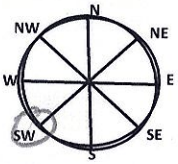
GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface:
Acoustic Environment:
- Traffic: helicopter
- Human activities: Road traffic
- Animal: wildlife
- Other noise sources: EMR, water

MONITORING ENDS

Operator: KN - DN	Total Monitoring Period 64:45
Date: 2021-08-26	Noise Meter End Time: 06:59
Calibration complete ?: Yes	Sensitivity: 52.25
Deviation 0.02	Time of Calibration: 0700

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 11.4	Wind Speed (km/hr): 10
Wind Direction: SW	

Barometric Pressure (kPa): 100.8	Relative Humidity (%) 77

Precipitation:	(none)	drizzle	rain

2021-08-23 14:00 → windy

Comments:

MONITORING STARTS

Operator: Louis D. - Nadine Blatter	Location: R2 - Freshwater
Date: 2021-07-08	Noise Meter Start Time:
Calibration complete ?: yes	Sensitivity: 51,22
Deviation: -0,03	Time of Calibration: 7h50
Battery Power Check: yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 11,3	Wind Speed (km/hr): 4,9

Wind Direction: NW

Barometric Pressure (kPa): —	Relative Humidity (%) 53.1

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	636795	7214435	463 ft

Type of Ground Surface:
Acoustic Environment:
- Traffic ACMAR
- Human activities - Helicopter
- Animal
- Other noise sources

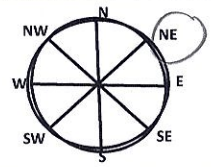
MONITORING ENDS

Operator: Louis Dubois	Total Monitoring Period 54h 36m
Date: 2021-07-10	Noise Meter End Time: 17h23
Calibration complete ?: Yes	Sensitivity: 51,58
Deviation 0,01	Time of Calibration: 17h30

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 17,7	Wind Speed (km/hr): 18

Wind Direction: North East



Barometric Pressure (kPa): —	Relative Humidity (%) 57

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

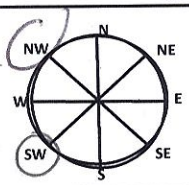
Operator: Louis Dubois & Derek N.	Location: R3
Date: 2021-08-~~08~~ 05	Noise Meter Start Time: 15:33
Calibration complete ?: Yes	Sensitivity: 52.2
Deviation: 0,08	Time of Calibration: 14:15
Battery Power Check: Yes	Check available disk memory (Y/N) Yes
Photographs of Setup (Y/N) Yes	Photographs of Surrounding (Y/N) Yes

Cloud cover: (cloudy) / partly cloudy / sunny

Height of cloud (feet): (0-10,000) / 10,000-25,000 / 25,000 +

Air Temperature (C): 7,0	Wind Speed (km/hr): 33,5 km

Wind Direction: North West



Barometric Pressure (kPa): 101.2	Relative Humidity (%) 66 %

Precipitation: (none) / drizzle / rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location	65° 1.409'N	96° 0,234'W	462 ft

Type of Ground Surface:

Acoustic Environment:

- Traffic: Helicopter
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

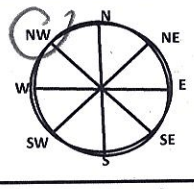
Operator: Louis Dubois & Nadine Blatter	Total Monitoring Period 68:21
Date: 2021-08-08	Noise Meter End Time: 11:53
Calibration complete ?: Yes	Sensitivity: 52,06
Deviation 52,06	Time of Calibration: 11:55

Cloud cover: (cloudy) / partly cloudy / sunny

Height of cloud (feet): (0-10,000) / 10,000-25,000 / 25,000 +

Air Temperature (C): 7,2	Wind Speed (km/hr): 30,3

Wind Direction: North West



Barometric Pressure (kPa):	Relative Humidity (%) 77,4

Precipitation: (none) / drizzle / rain

Comments: Hight winds & many rain event.

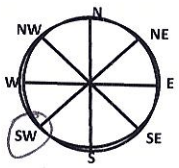
MONITORING STARTS

Operator: Kathleen Newberry.	Location: R3
Date: 2021-08-26	Noise Meter Start Time: 15:28
Calibration complete ?: Yes	Sensitivity: 51.7
Deviation: -0.09	Time of Calibration: 15:20
Battery Power Check: Y	Check available disk memory (Y/N)
Photographs of Setup (Y/N) Yes took them on the 29	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 22.	Wind Speed (km/hr): 5

Wind Direction:



Barometric Pressure (kPa): 100.7.	Relative Humidity (%) 57.

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
14W	641121	7214417	

Type of Ground Surface:

Acoustic Environment:

Traffic	helicopter Mine
Human activities	
Animal	Wildlife
Other noise sources	Road.

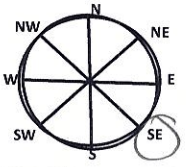
MONITORING ENDS

Operator: KN	Total Monitoring Period
Date: 2021-08-29	Noise Meter End Time: 16:15
Calibration complete ?: Did it at the office	Sensitivity: 52.07
Deviation 0.06	Time of Calibration: 17:20

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 12.9	Wind Speed (km/hr): ≥ 22km/h.

Wind Direction:



Barometric Pressure (kPa):	Relative Humidity (%) 87.3

Precipitation:	(none)	drizzle	(rain)

Comments: device had no more battery → had to calibrate. at the office. Rained on morning of 27th. Morning and evening on 29th → rained and here and there on the 29th

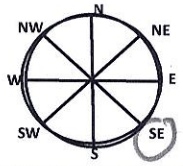
MONITORING STARTS

Operator: Louis D. Derek N.	Location: R4
Date: 2021-07-29	Noise Meter Start Time: 9:09
Calibration complete ?: Yes	Sensitivity: 51,73
Deviation: 0,01	Time of Calibration: 9h00
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 13	Wind Speed (km/hr): 4 km/h

Wind Direction: SE



Barometric Pressure (kPa):	Relative Humidity (%)	69,2
Precipitation: (none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	639441,02 E	7218750,1 N	505 ft

Type of Ground Surface:
Acoustic Environment: Helicopter, Haul Truck
- Traffic
- Human activities
- Animal
- Other noise sources

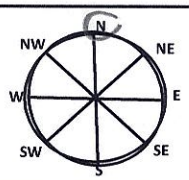
MONITORING ENDS

Operator: Louis D. Kathleen N.	Total Monitoring Period 55h 35m
Date: 2021-07-31	Noise Meter End Time: 16h44
Calibration complete ?: Y	Sensitivity: 51,74
Deviation 0,00	Time of Calibration: 16h45

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 16,5	Wind Speed (km/hr): 5 Km/h

Wind Direction: North



Barometric Pressure (kPa):	Relative Humidity (%)	63,7
Precipitation: (none)	drizzle	rain

Comments:

MONITORING STARTS

Operator: Kn	Location: R4
Date: 2021-09-31	Noise Meter Start Time:
Calibration complete ?: Yes	Sensitivity: 51,96
Deviation: -0,07	Time of Calibration: 16:45
Battery Power Check: Yes	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 13.5	Wind Speed (km/hr): 6,25
Wind Direction: SE	
Barometric Pressure (kPa): 101,4 kpa	Relative Humidity (%) 80%.
Precipitation: (none)	drizzle / rain

GENERAL SITE DESCRIPTION

GPS Location 14 W 0639411 UTM 7218750	Latitude	Longitude	Altitude

Type of Ground Surface:

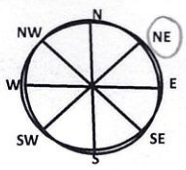
Acoustic Environment:

- (Traffic)
- Human activities
- (Animal)
- Other noise sources : water

MONITORING ENDS

Operator: Isabelle C., Derek N.	Total Monitoring Period 45h26min.
Date: 2021-09-02	Noise Meter End Time: 1:30 pm.
Calibration complete ?: Yes	Sensitivity: 51.77
Deviation -0.03 dB	Time of Calibration:

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 14.2°C	Wind Speed (km/hr): 12.5 km/h.
Wind Direction:	
Barometric Pressure (kPa): 100.3073	Relative Humidity (%) 76.8%
Precipitation: (none)	drizzle / rain

Comments:

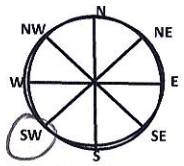
MONITORING STARTS

Operator: KN, MEB	Location: R5
Date: 2021-07-22	Noise Meter Start Time: 10:08
Calibration complete ?: yes	Sensitivity: 52.08 mV/Pa
Deviation: 0.05 dB	Time of Calibration: 9:53
Battery Power Check: yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet): none.	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 19.1	Wind Speed (km/hr): 15

Wind Direction:



Barometric Pressure (kPa): 100.9	Relative Humidity (%) 58

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	65° 1' 37.95" N	96° 9' 34.05" W	

Type of Ground Surface:

Acoustic Environment:

Traffic → yes AWAR.

Human activities → yes Explo camp close ~ 400m

Animal → yes seen some muskok in area

Other noise sources → a few streams close by. → a lot of heavy rain

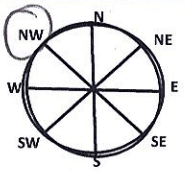
MONITORING ENDS

Operator: KN, MEB	Total Monitoring Period 47h59
Date: 2021-07-24	Noise Meter End Time: 10:06
Calibration complete ?: ~~no~~ yes	Sensitivity: 51.76 mV/Pa.
Deviation −0.05	Time of Calibration: −2021-07-25 ~ 9:30

Cloud cover: raining.	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 5.	Wind Speed (km/hr): 34.7

Wind Direction:



Barometric Pressure (kPa): 98.8	Relative Humidity (%) 67.1

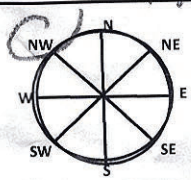
Precipitation:	none	(drizzle)	rain

Comments: rained on the night of 22. and also heavy rain on the 23rd and 24th → high winds also.

MONITORING STARTS

Operator: Louis Dubois Nadine Blatter	Location: RS
Date: 2021-08-08	Noise Meter Start Time: 17:43
Calibration complete ?: Y	Sensitivity: 51,72
Deviation: -0,06	Time of Calibration: 17h40
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 10°C	Wind Speed (km/hr): 14 Km/h
Wind Direction: North west	
Barometric Pressure (kPa):	Relative Humidity (%) 65

Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

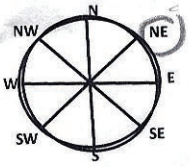
	Latitude	Longitude	Altitude
GPS Location	65°1'37,95 N	96°9'34.05°W	477 FT

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: Louis D	Total Monitoring Period
Date: 2021-08-11	Noise Meter End Time: 8h42
Calibration complete ?: Y	Sensitivity: 52,11
Deviation 0,07	Time of Calibration: 10:41

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 8°	Wind Speed (km/hr): 31 km/h
Wind Direction: North East	
Barometric Pressure (kPa):	Relative Humidity (%) 96%

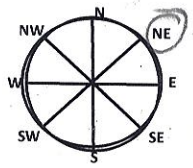
Precipitation:	none	drizzle	(rain)

Comments: High winds 2 cts of rain!

MONITORING STARTS

Operator: Isabelle Couture, Marie-Eve Beaulieu	Location: R5
Date: August 18, 2021	Noise Meter Start Time: ~~5:30pm~~ 2h40pm
Calibration complete ?: Yes	Sensitivity: ~~51.90~~ ~~52.23~~ 52.23
Deviation: ~~-0.01 dB~~ 0.06	Time of Calibration: 2:20pm
Battery Power Check: Yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): ~~10.7~~ 13.3	Wind Speed (km/hr): 5.2 Km/h | ~~20.1 Km~~ .MAX | ~~8.1~~ AVG
Wind Direction:	
Barometric Pressure (kPa):	Relative Humidity (%) ~~67.6~~ 59
Precipitation: (none)	drizzle | rain

GENERAL SITE DESCRIPTION

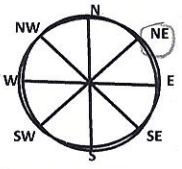
GPS Location	Latitude	Longitude	Altitude
	14 W [redacted]	0633788	7214503

Type of Ground Surface:
Acoustic Environment:
- Traffic: Road traffic.
- Human activities: helicopter
- Animal: 1 caribou close to the station
- Other noise sources:

MONITORING ENDS

Operator: N. Saucier	Total Monitoring Period
Date: 2021-08-20	Noise Meter End Time: 14:22
Calibration complete ?: Yes	Sensitivity: 52,10
Deviation: -0,02	Time of Calibration: 14:35

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

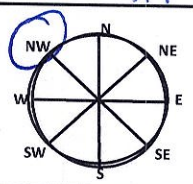
Air Temperature (C): 11,1°C	Wind Speed (km/hr): 9,5
Wind Direction:	
Barometric Pressure (kPa): 1,289 / 1,008	Relative Humidity (%) 84,6
Precipitation: none	(drizzle) | rain

Comments: Mention "R2" in the comment (vocal) at the end of the recording... N.S.

MONITORING STARTS

Operator: Kathleen. N and James. S.	Location: R6
Date: 2021-07-26	Noise Meter Start Time: 14:29.
Calibration complete ?: yes	Sensitivity: 52.01
Deviation: 0.04	Time of Calibration: 14:20
Battery Power Check: yes	Check available disk memory (Y/N) yes
Photographs of Setup (Y/N) yes	Photographs of Surrounding (Y/N) yes

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 6.1	Wind Speed (km/hr): 21.8
Wind Direction: (NW)	
Barometric Pressure (kPa): 100.0	Relative Humidity (%) 76.2

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

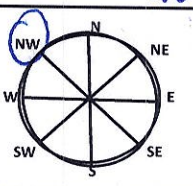
GPS Location	Latitude	Longitude	Altitude
	65° 5,477'N	96° 0.0303'W	—

Type of Ground Surface:
Acoustic Environment:
- Traffic: helicopter — AMA Road
- Human activities: water (lake)
- Animal: wildlife.
- Other noise sources:

MONITORING ENDS

Operator: KN, DN	Total Monitoring Period 47
Date: 2021-07-28	Noise Meter End Time: 15:00
Calibration complete ?: Y	Sensitivity: 52.18
Deviation 0.03	Time of Calibration: 15:05

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 8.0	Wind Speed (km/hr): 24.0
Wind Direction: (NW)	
Barometric Pressure (kPa): 101.1	Relative Humidity (%) 75.0

Precipitation:	(none)	drizzle	rain

Comments: light rain on the night of 27 & 28

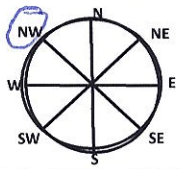
MONITORING STARTS

Operator: KN	Location: R6
Date: 2021-08-27	Noise Meter Start Time: 11:32
Calibration complete ?: Yes	Sensitivity: 44.5
Deviation: 0.04	Time of Calibration: 11:20
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 18.4	Wind Speed (km/hr): 10

Wind Direction:



Barometric Pressure (kPa): 100.5	Relative Humidity (%) 60

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location 14W	6407 08	7221964	

Type of Ground Surface:
Acoustic Environment:
- Traffic: Road.
- Human activities: helicopter
- Animal: wild life
- Other noise sources: water

MONITORING ENDS

Operator: DN	Total Monitoring Period 98:56. (4 days)
Date: 2021-08-31	Noise Meter End Time: 1430
Calibration complete ?: Y → at the office.	Sensitivity: 52.25
Deviation 1.39	Time of Calibration: 17:00

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	(25,000 +)

Air Temperature (C): 12.0	Wind Speed (km/hr): 8.0

Wind Direction:

Barometric Pressure (kPa): 101.5	Relative Humidity (%) 66.0

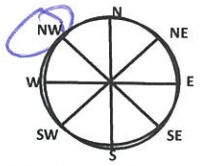
Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

Operator: FL - AG Dominic Gendron	Location: JOH35 R7
Date: 2021-07-26	Noise Meter Start Time: 4:00 PM
Calibration complete ?:	Sensitivity: 52.83
Deviation: 0.05 dB	Time of Calibration: 15:50
Battery Power Check: Y	Check available disk memory (Y/N)
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	(10,000-25,000)	25,000 +

Air Temperature (C): 7.1	Wind Speed (km/hr): 12.5
Wind Direction:	
Barometric Pressure (kPa): [illegible]	Relative Humidity (%) 66.5

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface:
Acoustic Environment: lakes near
(Traffic)
Human activities Chopper
(Animal)
Other noise sources

MONITORING ENDS

Operator: LA ST	Total Monitoring Period 63h 21m
Date: 2021-07-29	Noise Meter End Time: 7:20
Calibration complete ?: Y	Sensitivity: 52.96
Deviation 0.02	Time of Calibration: 7:43

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 5.8	Wind Speed (km/hr): 5.1
Wind Direction:	
Barometric Pressure (kPa): 101.3	Relative Humidity (%) 57.8

Precipitation:	(none)	drizzle	rain

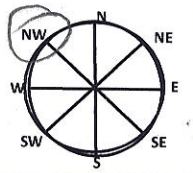
Tripod fell on the ground

Comments:

MONITORING STARTS

Operator: LA, AG	Location: R7
Date: 2021-08-23	Noise Meter Start Time:
Calibration complete ?: Y	Sensitivity: 92.63
Deviation: 0.09	Time of Calibration: 18:02
Battery Power Check: Y	Check available disk memory (Y/N)
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 12.6°C	Wind Speed (km/hr): 10 Km/h
Wind Direction:	
Barometric Pressure (kPa): 101.1	Relative Humidity (%) 56.1

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

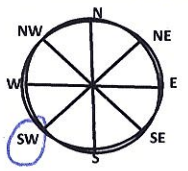
GPS Location	Latitude	Longitude	Altitude
14W	620194	7239038	

Type of Ground Surface: Tundra / rock
Acoustic Environment:
- (Traffic)
- Human activities
- (Animal)
- Other noise sources: Choper

MONITORING ENDS

Operator: KN. DN.	Total Monitoring Period 68:33
Date: 2021-08-26	Noise Meter End Time: 14:~~50~~ 43
Calibration complete ?: Y	Sensitivity: 44.3
Deviation -0.07	Time of Calibration: 14:48

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 21.5	Wind Speed (km/hr): 10
Wind Direction:	
Barometric Pressure (kPa): 100.7	Relative Humidity (%) 65.2

Precipitation:	(none)	drizzle	rain

Comments: Says in recording that it was deployed on 30th of Aug. but it's the 23rd.

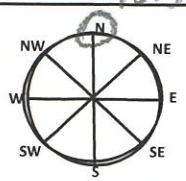
MONITORING STARTS

Operator: LA AG	Location: R8
Date: 2021-07-04	Noise Meter Start Time: 18:04
Calibration complete ?: Y	Sensitivity: 52.76
Deviation: 0,02	Time of Calibration: 17:51
Battery Power Check: Yes	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 11,4	Wind Speed (km/hr): 15,3

Wind Direction:



Barometric Pressure (kPa):	Relative Humidity (%) 48,2

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface: rock / tundra

Acoustic Environment:

- (Traffic)
- Human activities
- Animal
- Other noise sources

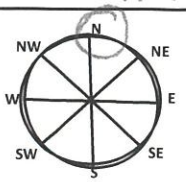
MONITORING ENDS

Operator: ST & AA	Total Monitoring Period R8
Date: 2021-07-07	Noise Meter End Time: 8:00 AM
Calibration complete ?: Y	Sensitivity: 52.60
Deviation -0.03 dB	Time of Calibration: 9:00

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 8.9	Wind Speed (km/hr): ~~10.7~~ 21.8

Wind Direction:



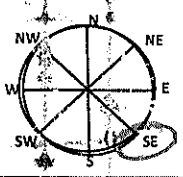
Barometric Pressure (kPa):	Relative Humidity (%) ~~50.8~~ 71

Precipitation:	(none)	drizzle	rain

Comments: microphone was found at a lower level, not proprely clipped at the moment of the pick-up.

MONITORING STARTS

Operator:	ST LA	Location:	RB
Date:	2021/07/30	Noise Meter Start Time:	17:31
Calibration complete ?:	YES	Sensitivity:	52.54
Deviation:	-0.07	Time of Calibration:	17:25
Battery Power Check:	Y	Check available disk memory (Y/N)	Y
Photographs of Setup (Y/N)	Y	Photographs of Surrounding (Y/N)	Y

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +
Air Temperature (C):	12.9°c	Wind Speed (km/hr):	14
Wind Direction: SE			
Barometric Pressure (kPa):		Relative Humidity (%)	75.4
Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface: tundra / rock

Acoustic Environment:

(Traffic) wind / rain

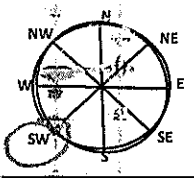
Human activities

(Animal)

Other noise sources

MONITORING ENDS

Operator:	STCM	Total Monitoring Period	67h 39m
Date:	2021/08/02	Noise Meter End Time:	13:10
Calibration complete ?:	Y	Sensitivity:	57.80
Deviation	0.01	Time of Calibration:	13:15

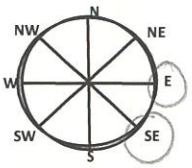
Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +
Air Temperature (C):	11.1	Wind Speed (km/hr):	28.9
Wind Direction: SW			
Barometric Pressure (kPa):	100.8	Relative Humidity (%)	73.8
Precipitation:	(none)	drizzle	rain

Comments: Some rain event but data looks good
High wind on 2021-08-01

MONITORING STARTS

Operator: FL-RW-KM	Location: RB
Date: 2021-09-11	Noise Meter Start Time: 16:35
Calibration complete ?: Y	Sensitivity: 44.7
Deviation: 44.7 - 0.07	Time of Calibration: 16:30
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Yes	Photographs of Surrounding (Y/N) Y

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 6.6	Wind Speed (km/hr): 11 Gust 18
Wind Direction:	
Barometric Pressure (kPa):	Relative Humidity (%) 86.9

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

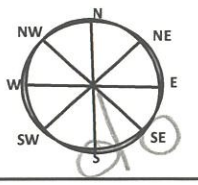
	Latitude	Longitude	Altitude
GPS Location			

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: FL-RW-KM	Total Monitoring Period 46 HRS
Date: 2021-09-13	Noise Meter End Time: 14:35
Calibration complete ?: Y	Sensitivity: 44.95
Deviation 0.05 db.	Time of Calibration: 16:14

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 5.5°C	Wind Speed (km/hr): 35KM Gusting 43 km/H
Wind Direction:	
Barometric Pressure (kPa):	Relative Humidity (%) 76.5

Precipitation:	none	drizzle	(rain)

Comments: Rain & wind on the 13th. but 12th was Quite Nice. all day.

MONITORING STARTS

Operator:	FL - A6	Location:	R9
Date:	2021-07-21	Noise Meter Start Time:	9H15
Calibration complete ?:	Y	Sensitivity:	52.68
Deviation:	0.07 db	Time of Calibration:	8:AM.
Battery Power Check:	Y	Check available disk memory (Y/N)	✓
Photographs of Setup (Y/N)	Y	Photographs of Surrounding (Y/N)	Y

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C):	13.3°C	Wind Speed (km/hr):	9.4KM/H
Wind Direction:			
Barometric Pressure (kPa):		Relative Humidity (%)	53,5
Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	14W 602488	7255946	

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator:	FL-SS	Total Monitoring Period	72HRS
Date:	2021-07-24	Noise Meter End Time:	9:00
Calibration complete ?:	Y	Sensitivity:	53.16
Deviation	0.09 db	Time of Calibration:	9:34 offu too much wind in field
Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C):	4°C	Wind Speed (km/hr):	Max 63 KM/H
Wind Direction:			
Barometric Pressure (kPa):		Relative Humidity (%)	70.2
Precipitation:	none	drizzle	rain

dew point 2.4°

Comments:

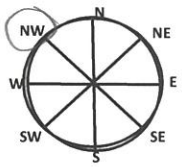
MONITORING STARTS

Operator: FL & SS	Location: R9
Date: 2021-08-18 9:45	Noise Meter Start Time:
Calibration complete ?: Y	Sensitivity: 44.42
Deviation: 0.01 db	Time of Calibration: 9:20
Battery Power Check: Yes	Check available disk memory (Y/N) Yes
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 12.8°C	Wind Speed (km/hr): 5KM/H

Wind Direction: DP: 6.7



MAY 6.1

Barometric Pressure (kPa): Ø		Relative Humidity (%) 66.2	
Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
14W	6024 88	7255946	

Type of Ground Surface: tundra
Acoustic Environment:
- Traffic
- Human activities: Mining activities * 4.5 KM.
- Animal ✓
- Other noise sources: chopper

MONITORING ENDS

Operator: ACO LA	Total Monitoring Period
Date: 2021-08-20	Noise Meter End Time: 13:38
Calibration complete ?: Y	Sensitivity: 52.29
Deviation 0.00 db	Time of Calibration: 14:00

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 12.5°C	Wind Speed (km/hr): 8.0 KM/H

Wind Direction:

Barometric Pressure (kPa): 101.3		Relative Humidity (%) 60.1	
Precipitation:	(none)	drizzle	rain

Comments: chopper didn't shuted down. Rain on cases / protective foam when arrived. Micro wasn't clip

MONITORING STARTS

Operator: ST 05	Location: R10
Date: 2021/07/08	Noise Meter Start Time: 12:02
Calibration complete ?: YES	Sensitivity: 52.50
Deviation: -0.02	Time of Calibration: 11:58
Battery Power Check: YES	Check available disk memory (Y/N)
Photographs of Setup (Y/N) YES	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 15.3	Wind Speed (km/hr): 12.7
Wind Direction: N	
Barometric Pressure (kPa): 5.7	Relative Humidity (%) 53.4

Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

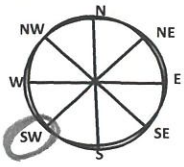
GPS Location	Latitude	Longitude	Altitude
	609516	7254055	

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: ST 05	Total Monitoring Period 50H
Date: 2021/07/10	Noise Meter End Time: 14:13
Calibration complete ?: YES	Sensitivity: 52.08
Deviation -0.02	Time of Calibration: 14:17

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 22.4	Wind Speed (km/hr): 11.2
Wind Direction: SW	
Barometric Pressure (kPa): 84	Relative Humidity (%) 41.6

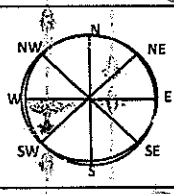
Precipitation:	none	drizzle	rain

Comments:

MONITORING STARTS

Operator:	ST AA	Location:	RAO
Date:	2021/08/05	Noise Meter Start Time:	16h45
Calibration complete ?:	Yes	Sensitivity:	53.06
Deviation:	0.04	Time of Calibration:	16h35
Battery Power Check:	Y	Check available disk memory (Y/N)	Y
Photographs of Setup (Y/N)	Y	Photographs of Surrounding (Y/N)	Y

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C):	9.8	Wind Speed (km/hr):	33
Wind Direction:			
Barometric Pressure (kPa):		Relative Humidity (%)	73.8
Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location 14W	609516	7254055	

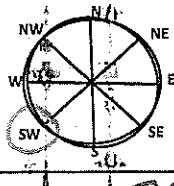
Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

vibration

MONITORING ENDS

Operator:	AA ST	Total Monitoring Period	47.5 h
Date:	2021-08-07	Noise Meter End Time:	16:15 PM
Calibration complete ?:	Y	Sensitivity:	44.78
Deviation	0.01	Time of Calibration:	16:15

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

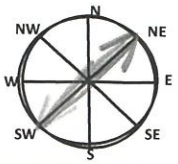
Air Temperature (C):	15.9	Wind Speed (km/hr):	9
Wind Direction:			
Barometric Pressure (kPa):		Relative Humidity (%)	70.8
Precipitation:	none	(drizzle)	rain

Comments:

MONITORING STARTS

Operator: FL / RW	Location: R11
Date: 2021-07-16 13:50 ←	Noise Meter Start Time:
Calibration complete ?: Y	Sensitivity: 52.86
Deviation: 0.13	Time of Calibration: 12:15
Battery Power Check: ✓ Yes	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	~~10,000-25,000~~	25,000 +

Air Temperature (C): 8.4	Wind Speed (km/hr): 15.2
Wind Direction:	
Barometric Pressure (kPa):	Relative Humidity (%) 49.1

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

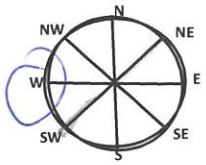
	Latitude	Longitude	Altitude
GPS Location			

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: FL / RW /	Total Monitoring Period
Date: 2021-07-19	Noise Meter End Time: 10:35
Calibration complete ?: yes office	Sensitivity: 52.26
Deviation -0.10db	Time of Calibration: 16:36

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 25°C	Wind Speed (km/hr): 16 km/hr
Wind Direction:	
Barometric Pressure (kPa):	Relative Humidity (%) 48.4

Precipitation:	(none)	drizzle	rain

Comments: Chopper did not shut down so cal. @ office.

MONITORING STARTS

Operator:	RW	Location:	R11
Date:	2021-08-14	Noise Meter Start Time:	15:45
Calibration complete ?:	Y	Sensitivity:	
Deviation:	0.00	Time of Calibration:	9:47
Battery Power Check:	Y	Check available disk memory (Y/N)	Y
Photographs of Setup (Y/N)	Y	Photographs of Surrounding (Y/N)	Y

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C):	12.4	Wind Speed (km/hr):	7.2
Wind Direction:			
Barometric Pressure (kPa):		Relative Humidity (%)	75 %
Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location			

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator:	RW	Total Monitoring Period	
Date:	2021-08-17	Noise Meter End Time:	14:00
Calibration complete ?:	N	Sensitivity:	
Deviation		Time of Calibration:	

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C):	11°C	Wind Speed (km/hr):	11.1
Wind Direction:			
Barometric Pressure (kPa):		Relative Humidity (%)	
Precipitation:	none	drizzle	rain

Comments: Helicopter