# **DURALIE COAL MINE**

**Quarterly Compliance Monitoring Q4 2022** 

**Prepared for:** 

**Duralie Coal Ltd** 



### PREPARED BY

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### **BASIS OF REPORT**

This report has been prepared by SLR Consulting Australia Pty Ltd (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Duralie Coal Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

### DOCUMENT CONTROL

Reference	Date	Prepared	Checked	Authorised
630.11772-R18-v0.1	28 February 2023	Shannon Harvey	Martin Davenport	Martin Davenport



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## 1 Introduction

Duralie Coal Pty Limited (DCPL), a wholly owned subsidiary of Yancoal Australia Limited (Yancoal), has commissioned SLR Consulting Australia Pty Ltd (SLR) to conduct quarterly noise monitoring for the Duralie Coal Mine (DCM) operations guided by the requirements of the *Duralie Coal Mine Noise Management Plan* (NMP), Document No. NMP-R07-A, dated December 2021. This report presents the results and findings from operator-attended operational noise monitoring conducted on Tuesday 13 December 2022, Wednesday 14 December 2022 and Wednesday 22 December 2022.

DCM has commenced the mine closure phase following the cessation of mining operations on 31 December 2021, accordingly the previous operator attended operation noise monitoring was conducted in the final quarter before mine closure on 28 October 2021. The recommencement of bulk material rehandle and shaping for mine rehabilitation in October 2022 has triggered quarterly operational noise monitoring to resume.

The objectives of the noise monitoring programme for this operating period were as follows:

- Conduct one round of external operator-attended noise measurements during operational periods at
  four nominated locations listed in Project Approval, representative of receivers located in the north,
  west and south directions from the DCM. The monitoring locations are NM1, NM4, NM5, and NM6.
- The site currently operates during the daytime, evening and night-time periods. The hours of operation at the DCM involve two shifts on Monday to Friday 6:30am 1:30am.
- Quantify all sources of noise within each of the attended noise surveys, including measured and/or
  estimated contribution and maximum level of individual noise sources.
- Assess the noise emissions from the DCM and determine compliance with respect to the limits contained in the NMP.

This report uses specialist acoustic terminology. An explanation of common terms is provided in Appendix A.

## 2 DCM Noise Limits

#### 2.1 EPL Noise Limits

The site specific noise limits of sub-section L4.1 of Section L4 *Noise Limits* of the EPA's Environment Protection Licence (EPL), EPL 11701 dated 27 July 2021, for the four nominated attended noise monitoring locations, are summarised in **Table 1**.

Table 1 EPL Noise Limits for the Nominated Attended Noise Monitoring Locations

Locality	LAeq(15minute)	LA1(1minute)		
	Daytime	Evening	Night-time	Night-time
NM1 Woodley	35	35	35	45
NM4 Fisher-Webster	35	35	37	45
NM5 Moylan	35	35	35	45
NM6 - Oleksiuk and	35	35	39	45
Carmody				



Additional conditions relating to the noise monitoring location and applicable meteorological conditions are outlined in sub-sections L4.2 (a) and L4.8 of EPL 11701 and are summarised below.

L4.2 (a) with the  $L_{eq}$  (15-minute) noise limits in condition 4.1, the noise measurement equipment must be located:

Approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or

Within 30 metres of a dwelling façade, but not closer than 3 m, where any dwelling on the property is situated more than 30 metres from the boundary closest to the premises.

Noise from the premises is to be measured at a distance within 30 metres of the locations identified in L4.1 to determine compliance with this condition.

L4.8 The noise limits set out in condition in L4.1 apply under all meteorological conditions except for the following:

- a) wind speeds greater than 3 metres/second at 10 metres above ground level; or
- b) Temperature Inversion conditions up to 3 degrees Celsius/100m and wind speeds greater than 2 metres/second at 10 metres above the ground level; or
- c) Temperature inversion conditions greater than 3 degrees Celsius/100m.

## 2.2 Project Approval Noise Limits

The Project approval conditions relating to the noise limits are as follows:

#### **Noise Criteria**

2. Except for the land referred to in Table 1, the Proponent shall ensure that the noise generated by the project does not exceed the criteria in Table 2 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.

Table 2: Noise criteria dB(A)

	Day	Evening	Nig	ght
Location	L <sub>Aeq(15 minute)</sub>	L <sub>Aeq(15 minute)</sub>	L <sub>Aeq(15 minute)</sub>	L <sub>A1(1 minute)</sub>
172 - Lyall	35	39	40	45
126 – Hamann Pixalu PL	35	35	39	45
123 - Oleksiuk & Carmody				
173 - Trigg & Holland	35	36	37	45
116 - Weismantel				
127 – Fisher-Webster	35	35	37	45
131(1) - Relton				
180 (1) - Thompson	35	36	36	45
95 - Smith & Ransley	35	35	36	45
144 - Wielgosinski				
169 - Williams	35	36	35	45
177 - Thompson				
All other privately-owned land	35	35	35	45

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- Noise generated by the project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy; and
- For this condition to apply, the exceedences of the criteria must be systemic.



## 2.3 Low Frequency Noise

The 'Duralie Modification Noise and Blasting Assessment' (prepared by SLR Consulting Australia dated 9 July 2014) included a low frequency analysis of C and A weighted intrusive noise levels in accordance with the NSW *Industrial Noise Policy* (INP) requirements. The assessment indicated that there is no dominant low-frequency content relating to noise emissions from the DCM.

The implementation and transitional arrangements for the NSW Noise Policy for Industry (NPfI) notes the following:

The NSW Industrial Noise Policy (2000) will continue to apply where it is referenced in existing statutory instruments (such as consents and licences), except for the NSW Industrial Noise Policy Section 4 modifying factors, which will be transitioned to the Noise Policy for Industry (2017) Fact Sheet C through a NSW Industrial Noise Policy application note. This approach has been taken because the Noise Policy for Industry (2017) modification factor approach reflects more recent understanding of the impact of tonal and low-frequency noise on the community.

As such appropriate modifying factors such as low frequency noise have been assessed against NPfI requirements. At all locations DCM was found to not trigger any modification factors, was not audible or significantly below the relevant noise criteria and modification factors are therefore not addressed further in this report. The results of the operator attended noise measurements presented in **Section 3**.

# 3 Operational Noise Monitoring Methodology

## 3.1 General Requirements

All acoustic instrumentation employed throughout the monitoring programme has been designed to comply with the requirements of AS IEC 61672.1 – 2019 *Electroacoustics—Sound level meters*, AS IEC 60942 2017 *Electroacoustics — Sound calibrators* and carried current NATA or manufacturer calibration certificates. Instrument calibration was checked before and after each measurement survey, with the variation in calibrated levels not exceeding ±0.5 dBA.

## 3.2 Methodology – Operator-attended Noise Monitoring Locations

Noise monitoring was conducted guided by the requirements of the NMP. Operator-attended noise measurements were conducted during the day, evening and night-time periods for 15 minutes per period at each of the four nominated noise monitoring locations. The details of the operator-attended noise monitoring locations are contained within **Table 2** and shown in **Figure 1**. During the operator attended noise measurements, the character and relative contribution of ambient noise sources along with the mine contributions were noted.

**Table 2 DCM Operational Noise Monitoring Locations** 

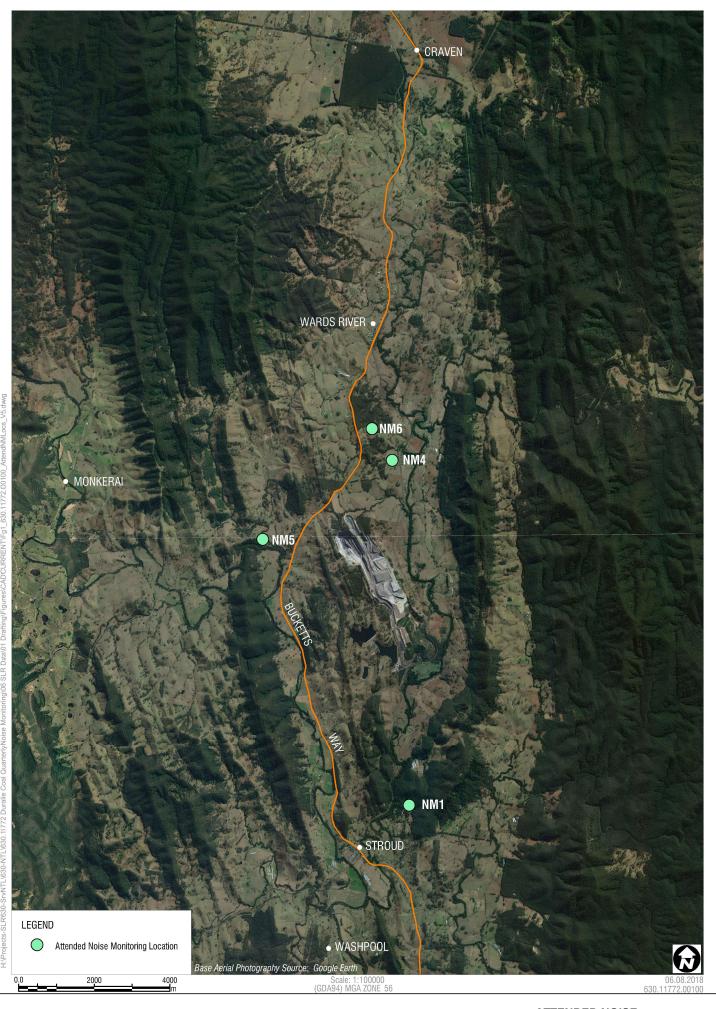
Monitoring	Receiver	Resident / Owner	Monitoring Location - MGA Zone 56			
Location	Туре		Easting (m)	Northing (m)		
NM1	Residence	Woodley <sup>1</sup>	400644	6421907		
NM4	Residence	Fisher-Webster	396790	6428961		



Monitoring	Receiver	Resident / Owner	Monitoring Location - N	MGA Zone 56
Location	Туре		Easting (m)	Northing (m)
NM5	Residence	Moylan	396770	6428945
NM6	Residence	Oleksiuk and Carmody	399661	6431862

Note 1: Woodley property has changed ownership but will retain the title of 'Woodley' until a License revision.





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ATTENDED NOISE MONITORING LOCATIONS

The objective of the DCM operational operator-attended noise monitoring was to measure the maximum (Lamax) and the Laeq(15minute) noise level contributions at the nearest potentially affected receptors to determine the noise contribution of mining activities associated with Duralie Coal Mine operations over a 15 minute measurement period. In addition, the operator quantifies and characterises the overall levels of ambient noise in the area (i.e. Lamax, La1, La10, La90, and Laeq) over the 15 minute measurement interval. Operator-attended noise measurements were conducted using a one-third octave integrating Brüel & Kjær Type 2250L sound level meter (s/n 3003389).

## 4 Results

## 4.1 Operator-attended Monitoring – DCM Operational Activity

Operator-attended noise measurements were conducted during the day, evening and night period on Tuesday 13 December 2022, Wednesday 14 December 2022 and 22 December 2022. Results of the operator-attended noise surveys at NM1, NM4, NM5, NM6 are provided in **Table 3** to **Table 6**.

A summary of the results for the operator-attended noise monitoring are displayed graphically in **Appendix B**. Charts of the noise surveys show LAmax, LAeq, and LAeq(≤1.25kHz) in 1-second intervals throughout the monitoring survey.

Ambient noise levels presented include all noise sources such as transport (roads, rail and aircraft), fauna (insects, frogs, birds, and bats), farm animals, the natural environment (wind in trees), domestic noises, other industrial operations as well as Duralie Coal Mine noise emissions.

Weather data during the monitoring period has been obtained from the weather station located on the Duralie Coal Mine site. Where this data was not available meteorological conditions have been estimated based on observed conditions during the monitoring period.

The tables provide the following information:

- Date and start time, operator and equipment details.
- Monitoring location.
- Wind velocity (m/s) and temperature (°C) at the measurement location.
- Typical maximum (LAmax) and contributed LAeq(15minute) noise levels.

Note that operator-attended rail noise monitoring was not conducted during Q4 2022 as the Duralie Shuttle rail was not in operation. The Duralie Shuttle Train ceased operating when the DCM closed on 31 December 2021. The last coal railed from the DCM was on 9 December 2021.



### 4.1.1 Operator-attended Noise Survey Results – 'NM1'

Results of the operator-attended noise surveys at 'NM1' are provided in **Table 3**. Monitoring location 'NM1' represents residential receptors located to the south of the site. Due to access restrictions noise monitoring was conducted at the entrance to the property.

Table 3 Operator Attended Noise Survey Results – 'NM1'

Period	Date/Start Time/	Primar	y Noise I	Descripto	or dBA (1	5 minute	e)	Description of Noise Emissions and Typical
	Weather			LAeq (≤1.25kHz)	Maximum Noise Levels (dBA)			
Day	13/12/2022 09:58 22°C 3.8 m/s S	85	76	48	34	62	61	Site related noise events:  DCM: Inaudible  Other noise events:  Train passbys 38-47  Local traffic 37-85  Wind in trees 35-39  Birdsongs 34-41
Evening	14/12/2022 19:30 22°C 4 m/s SW	65	49	40	30	38	36	Site related noise events:  DCM: Inaudible  Other noise events:  Birdsong 35-65  Aeroplane 30-56  Wind 30-36  Insects 29-30
Night	14/12/2022 23:15 17°C 1.5 m/s WSW	44	33	30	25	28	22	Site related noise events:  DCM: Inaudible  Other noise events: Insects/frogs 28-30  Dog barking 31-42  Road traffic 30-44  Exhaust clicks 28-33  Animal 44

DCM operations were inaudible during all periods of the operator attended noise surveys at this location. The ambient noise environment at the monitoring location generally consisted of road and rail traffic as well as natural sources such as wind, insects, frogs, dogs and birdsong.



### 4.1.2 Operator-attended Noise Survey Results – 'NM4'

Results of the operator-attended noise surveys at 'NM4' are provided in **Table 4**. Monitoring location 'NM4' represents residential receptors located north of the site.

Table 4 Operator-attended Noise Survey Results – 'NM4'

Period	Date/Start Time/	Primar	y Noise	Descripto	or dBA (1	.5 minute	<u>e)</u>	Description of Noise Emissions and Typical	
	Weather	LAmax	-Amax LA1		LA10 LA90		LAeq (≤1.25kHz)	Maximum Noise Levels (dBA)	
Day	13/12/2022 11:23 23°C 2.6 m/s S	70	50	43	33	41	39	Site related noise events:  DCM: Inaudible  Other noise events:  Aeroplanes 38-50 Insects 35-40 Distant road traffic 28-38 Road work 30-50 Birdsong 40-53 Train passby 41-47 Stick drop 70	
Evening	14/12/2022 20:52 20°C 2.5 m/s S	56	46	43	36	41	37	Site related noise events: Engine noise 26-36 DCM: Audible LAeq(15minute) Contribution 32 dBA Other noise events: Dogs barking 39-48 Insects/frogs 37-43 Pigs 35-56 Aeroplane 38	
Night	14/12/2022 22:42 18°C 2.1 m/s S	42	40	37	32	35	33	Site related noise events:  DCM: Audible  Engine noise 25-42  LAeq(15minute) contribution  33 dBA  LAmax contribution 42 dBA  Other noise events:  Frogs 31-39  Dogs barking 32-35	

DCM operations were inaudible during the day and audible during the evening and night-time operator attended noise surveys at this location. DCM operations generated an LAeq(15minute) noise contribution of 32 dBA during the evening and 33 dBA during the night-time. During the night-time, DCM operations generated an LAmax noise level of up to 42 dBA. The ambient noise environment at the monitoring location generally consisted of road and rail traffic as well as natural sources such as insects, frogs, dogs and birdsong.



## 4.1.3 Operator-attended Noise Survey Results – 'NM5'

Results of the operator-attended noise surveys at 'NM5' are provided in **Table 4**. Monitoring location 'NM5' represents residential receptors located to the west of the site.

Table 5 Operator-attended Noise Survey Results - 'NM5'

Period	Date/Start	Primar	y Noise I	Descripto	Description of Noise			
	Time/ Weather	LAmax	LA1	LA10	LA90	LAeq	LAeq (≤1.25kHz)	Emissions and Typical Maximum Noise Levels (dBA)
Day	13/12/2022 10:33 22°C 3.4 m/s S	55	50	42	32	39	37	Site related noise events:  DCM: Inaudible  Other noise events:  Birdsong 34-54  Aeroplane 35-55  Wind 32-34  Distant road traffic 31-36
Evening	14/12/2022 20:05 21°C 2.1 m/s SSW	65	54	53	32	49	38	Site related noise events:  DCM: Inaudible  Other noise events:  Birdsong 38  Insects 32-54  Livestock 41-65
Night	22/12/2022 01:33 14°C 1.3 m/s NNW	50	32	27	22	26	22	Site related noise events:  DCM: Inaudible  Other noise events: Frogs 27-29 Flowing creek 24-25 Livestock 30-35 Operator shuffle 50

DCM operations were inaudible during all periods of the operator attended noise surveys at this location. The ambient noise environment at the monitoring location generally consisted of natural sources such as insects, frogs, livestock and birdsong.



### 4.1.4 Operator-attended Noise Survey Results – 'NM6'

Results of the operator-attended noise surveys at 'NM6' are provided in **Table 4**. Monitoring location 'NM6' represents residential receptors located north of the site.

Table 6 Operator-attended Noise Survey Results - 'NM6'

Period	Date/Start Time/	Primar	y Noise	Descripto	or dBA (1	.5 minute	e)	Description of Noise Emissions and Typical
			LA1	LA10	LA10 LA90 LAeq LAeq (≤1.25kHz)		Maximum Noise Levels (dBA)	
Day	13/12/2022 11:54 24°C 2.6 m/s S	57	48	42	34	40	36	Site related noise events:  DCM: Inaudible  Other noise events:  Birdsong 38-57  Road work 32-42  Insects 30-34  Wind 33-38  Aeroplane 34-40
Evening	14/12/2022 21:17 20°C 4.2 m/s SSE	46	44	39	32	36	32	Site related noise events: Engine noise 26-34  DCM: Audible  LAeq(15minute) Contribution 29 dBA  Other noise events: Road traffic 30-46 Aeroplane 30-32 Insects/frogs 33-37 Dog barking 29-40 Wind gusts 33-42
Night	14/12/2022 22:00 19°C 3.5 m/s S	77	54	45	35	49	47	Site related noise events:  DCM: Barely Audible  Engine noise 30-36  LAeq(15minute) contribution 32 dBA  LAmax contribution 36 dBA  Other noise events: Road traffic 33-77  Insects 37-47  Wind 35-49

DCM operations were inaudible during the day and audible during the evening and night-time operator attended noise surveys at this location. DCM operations generated an LAeq(15minute) noise contribution of 29 dBA during the evening and 32 dBA during the night-time. During the night-time, DCM operations generated an LAmax noise level of up to 36 dBA. The ambient noise environment at the monitoring location generally consisted of road traffic as well as natural sources such as wind, insects, frogs and birdsong.



## 5 Performance Assessment

## **5.1** Operational Noise

Results of the operator-attended noise measurements compared with the relevant noise criteria contained in the Project Approval and EPL 11701 are given in **Table 7**.

**Table 7** Performance Assessment – Operations

Location	Estimated DCM LAeq(15minute) Noise Level dBA			Noise Cr dBA	iteria LAeq	(15minute)	Compliance		
	Day	Eve	Night	Day	Eve	Night	Day	Eve	Night
NM1	I/A¹	I/A¹	I/A <sup>1</sup>	35	35	35	Yes	Yes	Yes
NM4	I/A¹	32	33	35	35	37	Yes	Yes	Yes
NM5	I/A¹	I/A¹	I/A <sup>1</sup>	35	35	35	Yes	Yes	Yes
NM6	I/A¹	29	32	35	35	39	Yes	Yes	Yes

<sup>1.</sup> I/A = Inaudible

## **5.2** Sleep Disturbance

Results of the night period sleep disturbance measurements compared with the relevant noise criteria contained in the Project Approval and EPL 11701 are given in **Table 8**.

Table 8 Performance Assessment – Sleep Disturbance

Location	DCM LA1(1minute) Contribution	Noise Criteria LA1(1minute)	Compliance
NM1	I/A <sup>1</sup>	45	Yes
NM4	42	45	Yes
NM5	I/A <sup>1</sup>	45	Yes
NM6	36	45	Yes

I/A = Inaudible

Results presented in **Table 7** and **Table 8** indicate that compliance with the relevant criteria was achieved at all operator-attended monitoring locations.

## 6 Conclusion

SLR has conducted quarterly noise monitoring for the DCM guided by the requirements of the NMP.

Operator-attended operational noise monitoring was conducted at four locations during the day, evening and night period on Tuesday 13 December 2022, Wednesday 14 December 2022 and 22 December 2022. The assessment of daytime, evening and night-time operational noise emissions found DCM to be compliant with the relevant criteria contained within the DCM PA and EPL.



# **APPENDIX A**

Acoustic Terminology



# The following is a brief description of the acoustic terminology.

Acoustic Terminology	Description
'A' Weighted	Frequency filter applied to measured noise levels to represent how humans hear sounds.
dBA	'A' Weighted overall sound pressure level.
L90 , L10, L1	A statistical measurement giving the sound pressure level which is exceeded for the given percentile of an observation period, i.e., L90 is the level which is exceeded for 90 percent of an observation period. L90 is commonly referred to as the background sound level.
LAmax	Highest value of the A-weighted sound pressure level with a specified time weighting that occurs during a given event.



# **APPENDIX B**

Operator-attended Noise Survey Charts



Figure B1 - NM1 - Day Period - Operator Attended Noise Survey Results

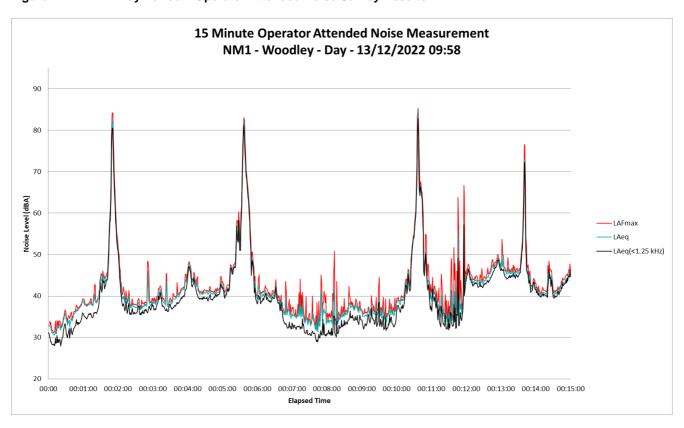
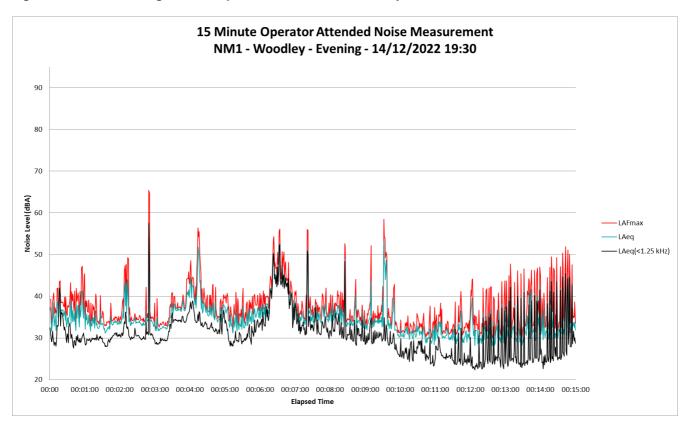


Figure B2 – NM1– Evening Period – Operator Attended Noise Survey Results



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Figure B3 – NM1– Night Period – Operator Attended Noise Survey Results

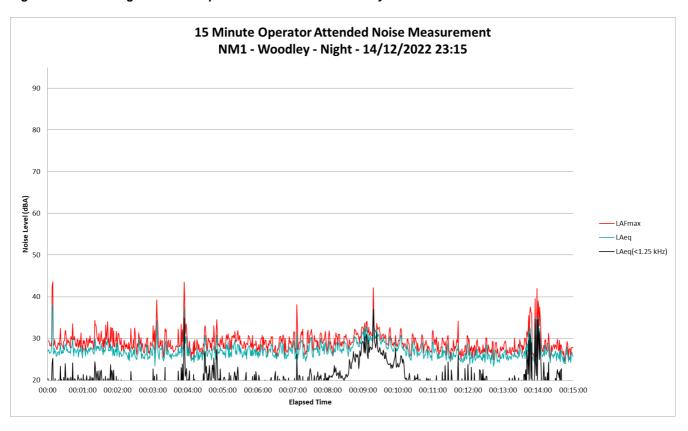


Figure B4 - NM4 - Day Period - Operator Attended Noise Survey Results

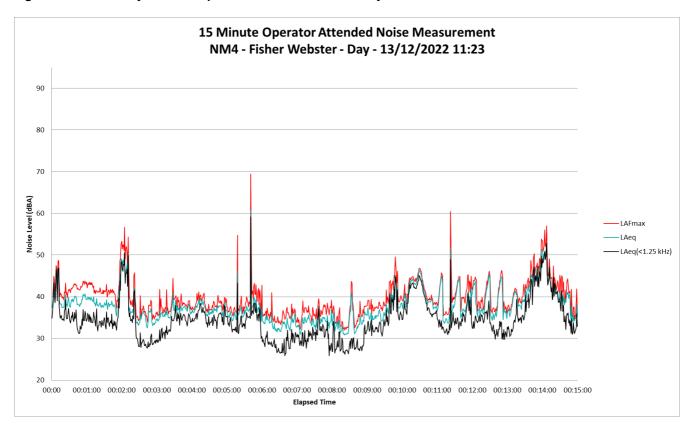


Figure B5 - NM4 - Evening Period - Operator Attended Noise Survey Results

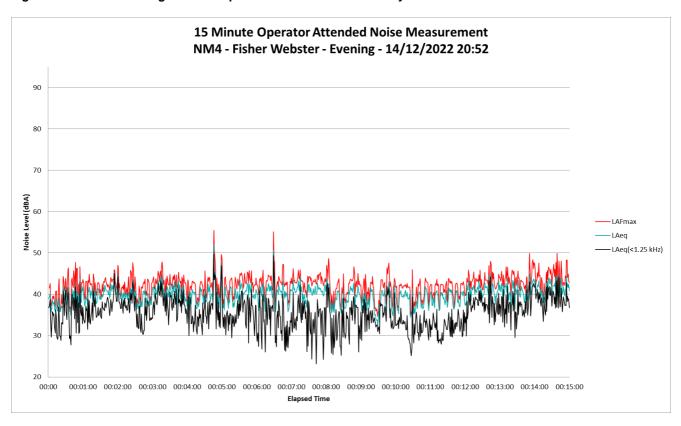


Figure B6 - NM4 - Night Period - Operator Attended Noise Survey Results

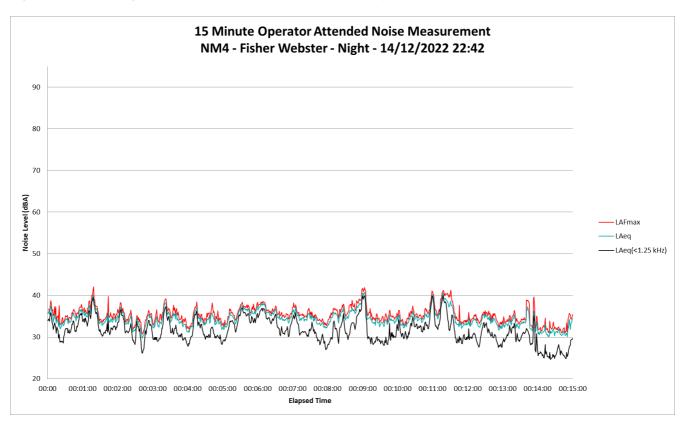




Figure B7 - NM5 - Day Period - Operator Attended Noise Survey Results

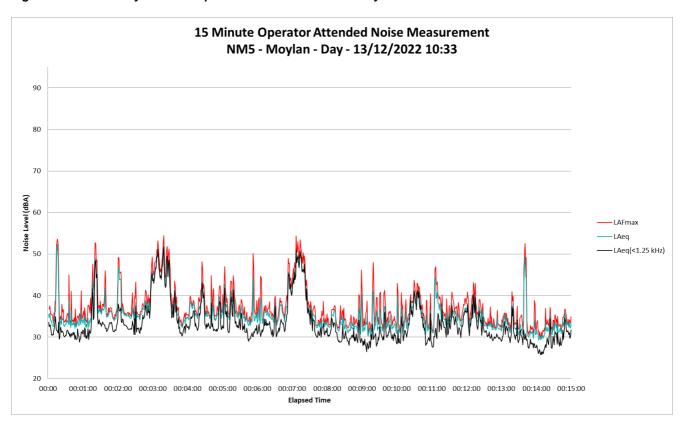


Figure B8 – NM5 – Evening Period – Operator Attended Noise Survey Results

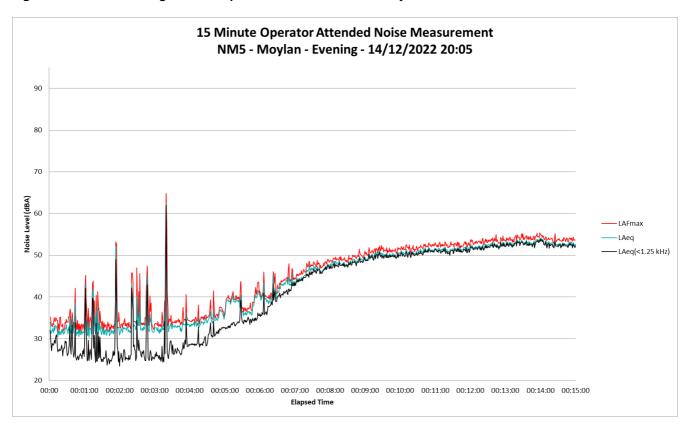


Figure B9 - NM5 - Night Period - Operator Attended Noise Survey Results

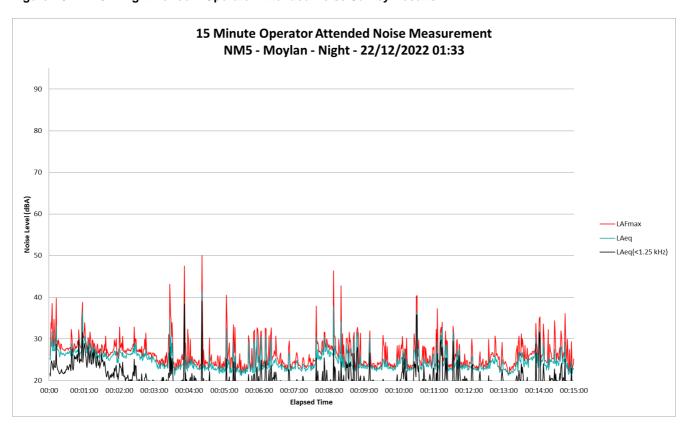
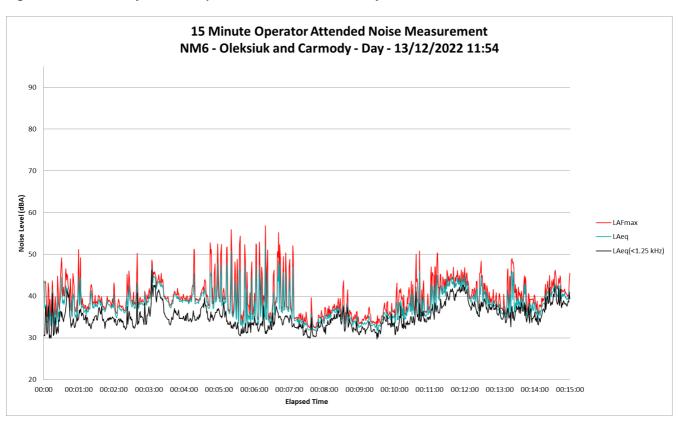


Figure B10 - NM6 - Day Period - Operator Attended Noise Survey Results



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Figure B11 - NM6 - Evening Period - Operator Attended Noise Survey Results

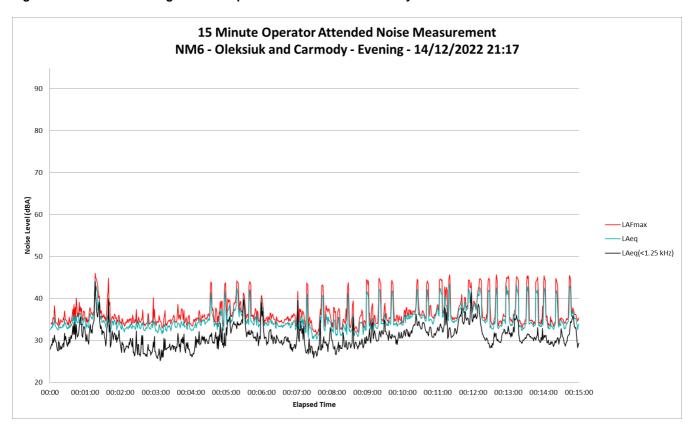
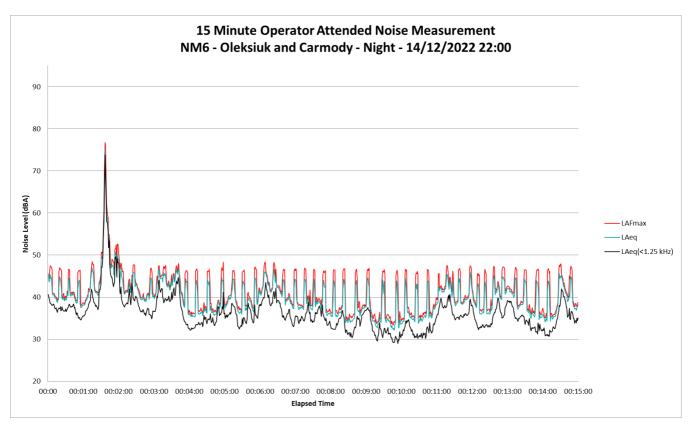


Figure B12 - NM6 - Night Period - Operator Attended Noise Survey Results



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