

# Environmental Monitoring Report – Noise Monitoring Data

# **Talbragar Quarry**

April 2024

Date Published: 6th May 2024

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 899 (EPL 899 – Boral Talbragar Quarry)

This report provides historical environmental monitoring data for Talbragar Quarry for the period January 2019 to Present day. If there is a gap in data presented in the report this is because there was no monitoring data to present for the relevant period.

	Talbragar Quarry Information
Premise Details	Boral – Talbragar Quarry
Address	Brocklehurst, Dubbo, NSW, 2830
Licensee	Boral Resources (Country) Pty Ltd
EPL No	899
EPL Location	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.as px?DOCID=170462&SYSUID=1&LICID=899

Monitoring data in this report relates to the monitoring undertaken in the reporting period for the following environmental pollutants:

• Noise Monitoring

## **Noise Monitoring**

Noise Monitoring is conducted as per condition M6 of EPL 899. The noise monitoring results for the reporting period are tabled below. All results are in compliance for the current reporting period.

Sample Period:	January 2019 – present
Licensee:	Talbragar Quarry
Licensee Address:	Brocklehurst, Dubbo, NSW 2830
EPL No:	899

## **Qualifications related to Noise**

M6.1 To assess compliance with Condition L4.1, attended noise monitoring must be undertaken in accordance with Conditions L4.5:

a) at monitoring points 12 and 14 as listed in Condition L4.1;

b) occur quarterly;

c) occur between the hours of 6am and 7am during either Road or Railway dispatch activities.

L	ocation	Day (7am to 6pm)	Evening (6p	om to 10pm)
EPL Ref.	Receiver Location	dB LAcq(15min)	dB LAcq(15min)	dB LAmax
P3	R1	36	35	45
P4	R2	41	38	48
P5	R3	35	35	45
P6	R4	36	35	45
P7	R5	36	35	45
P8	R6	35	35	45
P9	R7	35	35	45
P10	R8	46	41	55
P11	R9	46	41	45
P12	R10	46	41	45
P14	R11	41	38	48

## Noise Criteria

Note: The above noise limits do not apply at properties where the licensee has a written agreement with the landowner to exceed the noise limits.

Note 1: Noise criteria reproduced from the EPL.

## Noise Monitoring Results - Quarter 1 Ending October 2019

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Date Time (hrs)	Descript	or (dBA re	20 µPa)		0	
Date	Date Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
					WD: SW	Traffic 30-34
14:54 26/09/2019 (Day)	14:54	60		Birds 34-58		
	62	92 41	33	WS: 1.5m/s	Aircraft 32-53	
					Rain: Nil	Dogs <32
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35
	06:00				WD: SW	
27/09/2019	(Moming	67	45	40	WS: 0.1m/s	Birds 39-51
	Shoulder)				Rain: Nil	Traffic 36-47
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35

Note: Day - the period Pam Tam to Spin Monday to Baturday or Bam to Spin an Bundays and public holidays, Evening - the period Pam Spin to 10pm; Night - the remaining periods.

#### Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Lime (nrs)		or (objecte	20 µPa)	Martin		
Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA	
				WD: W	Traffic 31-68	
	75	75	54	54 31	WS: 1m/s	Wind <32
(Day)				Rain: Nil	Dogs <32	
	15:17 (Day)	15:17 75	15:17 75 54	15:17 75 54 31	WD: W 15:17 75 54 31 WS: 1m/s (Day)	

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Deter True (here)	<b>T</b> (1-1)	Descript	or (dBA re	20 µPa)	Meteorology	Developing and ODL 4DL
Date	Date Time (hrs)	LAmax	LAcq	LA90		Description and SPL, dBA
	•			••	WD: W	Traffic 39-54
	14:07	~				Birds 39-59
26/09/2019	(Day)	63	45	38	WS: 2m/s	Wind 39-58
						Rain: Nil
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35
	06:44				WD: SW	5. L 44 49
27/09/2019	(Morning	-	WS: 0.1m/s	Birds 41-48		
	Shoulder)			Rain: Nil	Traffic 38-46	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35

Note: Day - the period from 7am to 6pm Monday to Saturday or Sam to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the emaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Table 8 Ope	rator-Attend	ed Noise	Survey R	esults – Lo	cation P14	
Dete	Date Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date		LAmax	LAcq	LA90		Description and arc, dbA
	-	•				Birds 44-46
0010010040	14:33				WD: W	Traffic 44-73
26/09/2019	(Day)	76	52	42	WS: 1.5m/s Rain: Nil	Local residential noise <44
				Rain: Nil	Dogs 41-44	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35
	06:19				WD: SW	Birds 42-55
07/00/0010		-1	50			Traffic 39-68
27/09/2019	(Morning	74	74 52	43	WS: 0.1m/s	Livestock 43-56
	Shoulder)				Rain: Nil	Dogs <43
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35

## Noise Monitoring Results - Quarter 2 Ending January 2020

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Date Time (hrs)	Time (her)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
	LAmax	LAcq	LA90	Meteorology	Description and art, dbA	
						Dog Bark 38-48
						Wind 36-46
	16:16				WD: W	Traffic 38-54
03/10/2019		68	49	40	W8: 2.5m/s	Aircraft 4-68
(Day	(Day)				Rain: Nil	Birds 42-53
						Local residential noise 43-67
						Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35
	06:45				WD: W	Traffic 42-52
						Birds 42-61
04/10/2019	(Morning	62	49	43	WS: 0.5m/s	Aircraft 48-62
	Shoulder)	houlder)			Rain: Nil	Boral inaudible

Note: Day - the period itom Tam to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays; Evening - the period itom Spm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

Date Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Denvirting and OBL 4BA	
	Time (nrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
	-					Wind 42-60
	45.30				WD: WSW	Traffic 42-48
03/10/2019	15:38	60	48	41	WS: 2.5m/s	Local residential noise <42
	(Day)				Rain: Nil	Birds 42-50
						Boral inaudible

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date Time (hrs)	Time (here)	Descript	or (dBA re	20 µPa)	Manager		
	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA		
		•				Wind 40-56	
					WD: WSW	Traffic 41-48	
03/10/2019	15:20	59	40	49	46	WS: 2.5m/s	Local residential noise 40-58
03/10/2019	(Day)	29	49	70	Rain: Nil	Birds <44	
					Bain: Nil	Dog bark <44	
						Boral inaudible	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35	
	06:06				WD: W	Birds 46-61	
04/10/2019	(Morning	62	49	45	WS: 0.5m/s	Traffic 48-58	
	Shoulder)				Rain: Nil	Boral inaudible	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35	

Note: Day - the period from 7am to Epm Monday to Baturday or Bam to Epm on Bundays and public holidays; Evening - the period from Epm to 10pm; Kight - the emaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date Time (hrs)	Tree (here)	Descript	or (dBA re	20 µPa)	Matanalan	D
	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA	
						Traffic 46-73
					WD: W	Birds 43-51
03/10/2019	15:58	73	53	44	WD: W WS: 1.5m/s	Wind 42-45
(Day)	(Day)	/3	53		Rain: Nil	Dog bark 46-50
					Nain: Nil	Aircraft 45-69
						Boral processing plant <38
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	38
	06:27				WD: W	Traffic 46-62
04/10/2019	(Morning	62	49	43	WS: 0.5m/s	Birds 48-53
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35

## Noise Monitoring Results - Quarter 3 Ending April 2020

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Date Time (hrs)	Time (hrs)	Descript	or (dBA re	20 µPa)	Meteorology	Description and CRL dRA
Date	inne (nrs)	LAmax	LAcq	LA90		Description and SPL, dBA
						Birds 32-36
					WD: E	Traffic 34-66
09:46	66	45	35	WD: E WS: 1.5m/s	Wind 34-38	
10/02/2020	(Day)	00		35	Rain: Nil	Insects <32
					Nain: Nil	Aircraft 36-48
						Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35

Note: Day - the period Rom Tam to Epm Monday to Baturday or Bam to Epm on Bundays and public holidays; Evening - the period Rom Epm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Table 6 Ope	erator-Attend	ed Noise	Survey R	esults – Lo	cation P6	
Dette	Date Time (hrs)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date		LAmax	LAcq	LA90	wieteorology	
	06:45				WD: E	Traffic 36-67
18/02/2020	(Morning	67	47	32	WS: 0.1m/s	Birds 32-45
	Shoulder)				Rain: Nil	Boral inaudible
	Talbra	gar Quarry	LAcq(15mir	) Contribution	1	<35
	•	•			1410-505	Traffic 36-58
18/02/2020	09:25	70	50	33	WD: ESE WS: 0.5m/s	Birds 36-44
10/02/2020	(Day)	72	72 52		Rain: Nil	Local residential noise 36-72
					Rain: Nil	Boral inaudible
	Talbra	gar Quarry	LAcq(15mir	) Contribution	n	<35

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

	<b>T</b> (1-1)	Descript	or (dBA re	20 µPa)	Maria	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	
	-	•		••		Traffic 38-72
	06:09				WD: E	Dog 35-40
18/02/2020	(Morning	72	43	34	WS: 0.1m/s	Birds 34-40
	Shoulder)				Rain: Nil	Aircraft 39-55
					Boral inaudible	
	Talbrag	ar Quarry L	Acq(15min)	Contribution		<35
					WD: ESE	Local residential noise 36-48
8/02/2020	08:36	76	50	43	WD: ESE WS: 0.1m/s	Boral processing 36-42
10/02/2020	(Day)	10	50	43	Rain: Nil	Birds 39-51
					Nain: Nil	Traffic 36-76
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	42

Note: Day - the period Pom 7am to Spm Monday to Saturday or Sam to Spm on Sundays and public holidays; Evening - the period Pom Spm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date	Tree (here)	Descript	tor (dBA re	20 µPa)	Manager	Description and SPL, dBA
Date Time (ris)	Time (hrs)	LAmax	LAcq	LA90	Meteorology	
						Traffic 39-80
	06:28				WD: E	Idling traffic 36-38
18/02/2020	(Morning	80	51	39	WS: 0.1m/s	Rooster 37-44
	Shoulder)				Rain: Nil	Birds 36-42
					Boral inaudible	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35
					WD: ESE	Boral loading (3 secs) <61
18/02/2020	09:05	75	53	43	WS: 0.1m/s	Boral processing plant 36-42
10/02/2020	(Day)	19	33		Rain: Nil	Traffic 36-74
					Nain: Nil	Birds 36-44

## Noise Monitoring Results - Quarter 4 Ending July 2020

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Date	Time (here)	Descript	tor (dBA re	20 µPa)	Matanalam	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	
	06:40				WD. 5	Traffic 38-56
	-1			WD: E	Birds 38-74	
19/05/2020	(Morning	74	54	41	WS: 1m/s	Dogs <40
	Shoulder)				Rain: Nil	Boral processing ~38
	Talbra	gar Quarry	LAcq(15mir	) Contribution	n .	~38
						Birds 38-89
					WD: E	Traffic 39-54
19/05/2020	07:00	89	56	42	WS: 0.5m/s	Boral processing <40
	(Day)				Rain: Nil	Boral tipping 39-52
						(10 seconds)
	Talbra	gar Quarry	LAcg(15mir	) Contribution	1	39

Note: Day - the period from Tam to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period from Epm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

		Descriptor (dBA re 20 µPa)			Maranala	
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
07:57		-			WD: E	Birds 38-67
19/05/2020		67	48	44	WS: 0.5m/s	Traffic 36-52
	(Day)				Rain: Nil	Boral processing <36
	Talbra	gar Quarry	LAcq(15mir	) Contribution	n	<36

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date	Tree (here)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90		
	06:02			••	WD: E	Wind 35-39
				39 36		Traffic 34-51
19/05/2020	(Morning	51	39		WS: 1.5m/s	Industrial hum <35
	Shoulder)				Rain: Nil	Boral processing 34-36
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	35
						Aircraft 42-46
					WD: E	Birds 42-80
19/05/2020	07:39	80	54	44	WS: 0.5m/s	Traffic 38-52
	(Day)				Rain: Nil	Boral tipping 38-46
						(5 seconds)
	Talbrao	ar Quarry L	Acq(15min)	Contribution		<35

Note: Day - the period Pom Tam to Spin Monday to Baturday or Bam to Spin on Bundays and public holidays; Evening - the period Pom Spin to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date		Descript	or (dBA re	20 µPa)		Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	
	06:21				WD: E	Birds 38-56
		73		38		Traffic 36-72
19/05/2020	(Morning	73	50	30	WS: 0.5m/s	Rooster 38-44
	Shoulder)				Rain: Nil	Boral reverse alarms <36
	Talbrag	ar Quarry L	Acq(15min)	Contribution		<36
						Birds 38-54
			54	47	WD: E	Traffic 36-66
9/05/2020	07:18	66			WS: 0.5m/s	Boral processing 34-38
	(Day)				Rain: Nil	Boral reverse alarms 38-45
						(5 seconds)
	Tallacan	ar Ouarry I	Annata	Contribution		. 36

## Noise Monitoring Results - Quarter 1 Ending October 2020

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Date Time (hrs)	Time (here)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
	LAmax	LAcq	LA90	meteorology		
					WD: SW	Aircraft 33-60
19/10/2020	16:29	~	60 40			Birds 36-48
(Day)	(Day)	60	40	33	WS: 0.4m/s	Traffic 36-46
					Rain: Nil	Boral Inaudible
	Talbra	gar Quarry	LAcq(15mir	) Contribution	n .	<30
	06:44				WD: SE	Birds 32-62
20/10/2020	(Morning	62	42	32	WS: 0.1m/s	Traffic 30-54
	Shoulder)				Rain: Nil	Boral Inaudible
	Talbra	gar Quarry	LAcg(15mir	) Contribution	n	<30

Note: Day - the period from 75m to 6pm Monday to Saturday or Sam to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

Date	Time (here)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dB/
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and ar E, dow
	-				WD: SW	Insects <30
16:49	-			Birds 30-44		
19/10/2020	(Day)	71	53	31	WS: 0.1m/s	Traffic 30-71
					Rain: Nil	Boral Inaudible

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date Time	<b>T</b> (1-1)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90		
	-	•		••		Birds 36-66
					WD: SW	Insects 36-40
19/10/2020	15:52	67	47	36	WS: 0.3m/s	Traffic 38-48
(0	(Day)				Rain: Nil	Aircraft 36-65
						Boral Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<30
	06:07				WD: SE	Birds 42-58
20/10/2020	(Morning	60	44	37	WS: 0.1m/s	Traffic 40-52
	Shoulder)				Rain: Nil	Boral Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<30

Note: Day - the period Rom Tam to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period Rom Epm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date	Time (hrs)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date		LAmax	LAcq	LA90	Meteorology	
						Local residential noise 41-46
	16:11				WD: SW	Boral processing 34-38
19/10/2020		73	49	40	WS: 0.1m/s	Birds 45-53
	(Day)				Rain: Nil	Traffic 38-73
						Dog <44
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	35
	06:26				WD: SE	Birds 36-44
20/10/2020		66	49	20	WS: 0.1m/s	Traffic 36-66
20/10/2020	(Morning	00	-13	38	Rain: Nil	Rooster 36-49
	Shoulder)				Rain: Nil	Boral Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<30

## Noise Monitoring Results - Quarter 2 Ending January 2021

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	time (nns)	LAmax	LAcq	LA90	meteorology	
					WD: N	Traffic 42-56
07:00					Birds 41-62	
19/01/2021	(Day)	62	48 44 WS: 0.1m/s	WS: 0.1m/s	Quarry tipping 36-45	
(50)				Rain: Nil	(10 seconds)	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<30

Note: Day - the period Pom 7am to Epm Monday to Saturday or Bam to Epm on Sundays and public holidays; Evening - the period Pom Epm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 6.

Table 6 Ope	erator-Attende	ed Noise S	Survey Re	sults – Loc	ation P10	
Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
564	time (nns)	LAmax	LAcq	LA90	Meteorology	beschpton and of 2, dbx
	08:23				WD: N	Traffic 38-48
19/01/2021		75	50	44	WS: 0.1m/s	Birds 38-75
	(Day)				Rain: Nil	Quarry Screening Plant <38
	Talbrag	<38				
	•			•		Traffic 46-54
	06:04				WD: NE	Birds 48-72
19/01/2021	(Morning	72	53	46	WS: 0.1m/s	Livestock 43-56
	Shoulder)				Rain: Nil	Train 48-62
						Quarry Inaudible
	Talbrag	gar Quarry L	Acq(15min)	Contribution		<30

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date	Tree (her)	Descript	or (dBA re	20 µPa)	Material	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and ar C, dDA
						Traffic 42-50
					WD: N	Birds 42-49
19/01/2021	08:03	3 68	48	3 44	WS: 0.1m/s	Dogs <44
(Day)	(Day)	00	70		Rain: Nil	Local residential noise 42-50
					FADIT. PAR	Aircraft 48-68
						Quarry Mobile Plant <42
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<42
	06:22				WD: NE	Traffic 43-49
19/01/2021	(Morning	66	50	45	WS: 0.1m/s	Birds 47-66
	Shoulder)				Rain: Nil	Quarry Inaudible

Note: Day - the period Rom 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period Rom 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at

Date	Time (hrs)	Descript	or (dBA re	20 µPa)	Material	Description and CRI dRA
Date		LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
						Insects 44-46
	08:41				WD: N	Traffic 44-76
19/01/2021	76	52	42	WS: 0.1m/s	Birds 46-52	
	(Day)				Rain: Nil	Aircraft 44-50
						Quarry Screening Plant 36-4
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	40
						Birds 46-58
	06:43				WD: N	Traffic 46-71
19/01/2021	(Morning	71	50	44	WS: 0.1m/s	Quarry Screening Plant <36
	Shoulder)				Rain: Nil	Quarry Mobile Plant 36-48
						(30 seconds)
	Talbrao	ar Quarry L	Aca(15min)	Contribution	1	35

## Noise Monitoring Results - Quarter 3 Ending April 2021

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 5.

Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
	LAmax	LAcq	LA90	Meteorology		
						Boral Water Cart
						(10 seconds) 39-41
16:35	16.35				WD: SW	Boral Front End Loader
		60	43	38	WS: 0.4m/s	(30 seconds) 39-43
	(Day)				Rain: Nil	Birds 35-60
						Traffic 39-48
						Insects <39
	Talbrag	ar Quarry L	Acq(15min)	Contribution	l.	30

Note: Day - the period Rom Tam to Spm Monday to Saturday or Bam to Spm on Sundays and public holidays; Evening - the period Rom Spm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 6.

	<b>T</b> (1-1)	Descript	tor (dBA re	20 µPa)	Manager	Description and CBL dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
						Traffic 39-70
						Birds 39-44
					WD: SW	Insects <39
12/04/2021	16:55	70	51	39	WS: 0.3m/s	Agriculture 39-42
	(Day)				Rain: Nil	Local residential noise 38-65
						Aircraft 38-57
						Quarry Inaudible
	Talbrag	gar Quarry L	Acq(15min)	Contribution		<30
	06:39			•	WD: SE	Traffic 40-73
13/04/2021		73	53	41	WD: 8E WS: 0.1m/s	Birds 40-61
13/04/2021	(Morning	15		-		Local residential noise 40-6
	Shoulder)				Rain: Nil	Quarry Inaudible
	Talbrag	gar Quarry L	Acg(15min)	Contribution		<30

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date Time (hrs)	<b>T</b> (1-1)	Descript	or (dBA re	20 µPa)		Denvir (and a set of the
	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA	
						Birds 38-49
	15:59				WD: SW	Traffic 38-44
12/04/2021	(Day)	68	50	41	WS: 0.4m/s	Aircraft 39-68
					Rain: Nil	Quarry Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<30
						Traffic 39-66
	06:01				WD: SE	Birds 41-70
13/04/2021	(Morning	70	49	43	WS: 0.1m/s	Dogs <44
	Shoulder)				Rain: Nil	Quarry Inaudible
	Talbrag	ar Quarry L	Aca(15min)	Contribution		<30

Note: Day - the period iron 7am to Epm Monday to Saturday or Sam to Epm on Sundays and public holidays; Evening - the period iron Epm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R11) for the NMA are presented in Table 8

Date		Descript	or (dBA re	20 µPa)		Description of ODL HDA
Date	Time (hrs)	LAmax LAcq LA90	Meteorology	Description and SPL, dBA		
						Birds 44-48
				40	WD: SW WS: 0.3m/s	Traffic 41-73
16:16 12/04/2021 (Day)	16:16	73	50			Boral Hammering
	(Day)	73	50		Rain: Nil	(5 seconds) 39-43
					isan, ni	Dogs 39-42
						Livestock 37-39
	Talbrag	ar Quarry L	Acq(15min)	Contribution		<30
	06:19				WD: SE	Birds 39-70
13/04/2021	(Morning	70	52	46	WS: 0.1m/s	Traffic 39-58
	Shoulder)				Rain: Nil	Quarry Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<30

## Noise Monitoring Results - Quarter 4 Ending July 2021

#### Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R3) for the NMA are presented in Table 5.

Date	Tree (here)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	meteorology	
						Birds 45-66
					WD: SE	Local residential noise 45-54
06/07/2021	07:10	74	54	47	WS: 0.1m/s	Traffic 45-74
	(Day)				Rain: Nil	Boral Train Idle 37-39
						Boral Tipping 43-52 (5 seconds
	Talbraga	r Quarry L/	Acq(15min) (	Contribution		<37
	06:05				WD: SE	Boral Train Idle 37-39
06/07/2021	(Morning	61	45	41	WS: 0.1m/s	Birds 39-61
	Shoulder)				Rain: Nil	Traffic 39-46

Note: Day - the period if on Tam to Epm Monday to Estunday or Bam to Epm on Bundays and public holidays; Evening - the period if on Epm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R4) for the NMA are presented in Table 6.

Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	Time (nns)	LAmax	LAcq	LA90	Meteorology	Description and or E, dok
	•	-			WD: SE	Traffic 56-85
08:1	08:16				WD: SE	Industrial hum 56-63
06/07/2021	(Day)	85	65	56	WS: 0.1m/s	Aircraft 55-64
(Day)			Rain: Nil	Boral Tipping (1 minute) 55-6		

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date Time	<b>T</b> (1-1)	Descript	or (dBA re	20 µPa)		Description and SPL, dBA
	Time (hrs)	LAmax	LAcq	LAcq LA90 Meteorology	Description and ar E, dbA	
	08:40				WD: SE	Traffic 48-65
06/07/2021	/2021	65	48	42	WS: 0.1m/s	Birds 48-54
(Day)	(Day)				Rain: Nil	Boral Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution		<35
	06:43				WD: SE	Traffic 41-58
06/07/2021	(Morning	64	49	44	WS: 0.1m/s	Birds 41-64
	Shoulder)				Rain: Nil	Boral Inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution		<35

Note: Day - the period Pom Tam to Epm Monday to Baturday or Bam to Epm on Bundays and public holidays; Evening - the period Pom Epm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R11) for the NMA are presented in Table 8

Date	<b>T</b>	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and art, dbk
	-		•		WD: SE	Birds 45-61
06/07/2021	07:50	61	49	45	WS: 0.1m/s	Traffic 45-48
06/07/2021	(Day)	01	43	40	Rain: Nil	Dog bark 45-51
					rain: Nil	Boral Tipping (5 seconds) 45-50
	Talbraga	r Quarry L	Acq(15min)	Contribution		35
						Roosters 39-58
	06:23				WD: SE	Traffic 39-62
06/07/2021	(Morning	73	51	43	WS: 0.1m/s	Birds 39-42
	Shoulder)				Rain: Nil	Operator vehicle 73
						Boral Train Idle <39
		0		Contribution		<37

## Noise Monitoring Results - Quarter 1 Ending October 2021

#### 4.1 Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 5**.

Date Time (hrs)	Time (here)	Descript	or (dBA re	20 µPa)		
	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA	
				14/D. F	Wind in trees 42-64	
12/10/2021	11:34	71	54	47	WD: E	Birds 42-71
12/10/2021	(Day)				WS: 2.5m/s Rain: Nil	Traffic 42-58
					Rain. Nii	Boral Inaudible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution	l.	<35
						Wind in trees 34-44
	06:38 <sup>1</sup>				WD: SE	Traffic 34-42
12/10/2021	(Morning	72	47	38	WS: 1.4m/s	Birds 34-48
	Shoulder)				Rain: Nil	Operator 45-72
						Boral Inaudible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution	1	<30

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods. Note 1: Five minutes of the 15 minute assessment period were excluded due to adverse meteorological conditions.

#### 4.2 Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 6**.

Table 6 Ope	Table 6 Operator-Attended Noise Survey Results – Location P6								
Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and SPL, dBA			
Date		LAmax	LAeq	LA90	Meteorology	-			
11:57				WD: E	Traffic 52-68				
12/10/2021		78	63	56	WS: 2.8m/s	Wind in trees 54-78			
	(Day)				Rain: Nil	Boral Inaudible			
	Talbrag	gar Quarry L	Aeq(15min)	Contribution		<35			

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Matanalan	Description and ORL dRA
Date		LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
						Traffic 48-63
10:21 12/10/2021 (Day)				WD: E	Birds 48-67	
	67	52	50	WS: 0.8m/s	Wind in trees 48-63	
	(Day)				Rain: Nil	Boral Loading 48-54
						(2 minutes)
	Talbrag	ar Quarry L	Acq(15min)	Contribution		41
						Traffic 34-54
	06:00				WD: SE	Birds 34-60
12/10/2021	(Morning	60	45	37	WS: 0.1m/s	Dog bark 44-49
	Shoulder)				Rain: Nil	Train horn 52-56
						Boral Inaudible

Note: Day - the period from 7am to 8pm Monday to Seturday or 8am to 8pm on Sundays and public holdays; Evening - the period from 8pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R11) for the NMA are presented in Table 8

Date	Time (hrs)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	time (nrs)	LAmax	LAcq	LA90		
,				WD: E	Birds 52-72	
12/10/2021	11:16	72	58	55	WD: E WS: 2m/s	Wind in trees 52-65
12/10/2021	(Day)	12		Rain: Nil	Traffic 52-68	
					Rain: Nil	Boral processing <41
	Talbrag	~41				
						Traffic 43-68
	06:17				WD: SE	Birds 43-56
12/10/2021	(Morning	74	54	44	WS: 0.6m/s	Train passby 43-74
	Shoulder)				Rain: Nil	Boral Impacts 40-44
						(4 minutes)
	Talbrao	ar Quarry L	Acq(15min)	Contribution		34

## Noise Monitoring Results - Quarter 2 Ending January 2022

#### Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 5**.

Date Time (hrs)	Time (here)	Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
	LAmax	LAeq	LA90	Meteorology	Description and SFL, dBA	
					WD: S	Birds 39-54
07:18	07:18			42	WD: 5 WS: 0.4m/s	Traffic 39-75
18/10/2022	(Day)	75	51			Insects 39-41
(Day)				Rain: Nil	Boral inaudible	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 6**.

Table 6 Ope	erator-Attende	ed Noise S	Survey Re	sults – Loc	ation P10		
Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Mataaralagu	Description and SDL dR/	
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA	
						Birds 40-49	
					WD- 0	Traffic 40-64	
18/10/2022	07:37	72	52		10	WD: S WS: 0.2m/s	Insects <40
(Day)	(Day)	72	52	42		Aircraft 40-72	
					Rain: Nil	Boral reverse alarms <40	
						(2 minutes)	
	Talbrag	gar Quarry I	Aeq(15min)	Contribution		33	
	06:38				WD: S	Traffic 39-59	
18/10/2022		50		WD: 5	Insects 36-38		
10/10/2022	(Morning	-	40	38		Birds 42-56	
	Shoulder)				Rain: Nil	Boral inaudible	
	Talbrag	gar Quarry I	Aeq(15min)	Contribution		<30	

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Material	Description of ODI (10)
Date Time (rits)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA	
				WD: S	Council slashing 49-91	
18/10/2022	08:37	~	-	71 43		Dogs 43-46
18/10/2022	(Day)	91	0		WS: 1.4m/s	Traffic 43-50
					Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<35
	06:19				WD: S	Insects <39
						Birds 39-75
18/10/2022	(Morning	75	49	42	WS: 0.4m/s	Traffic 39-56
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	< 30

Note: Day - the period from 7am to 5pm Monday to Saturday or Dam to 5pm on Sundays and public holdays; Evening - the period from 5pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date		Descript	tor (dBA re	20 µPa)	Meteorology	Description and CBL dBA
Date	Time (hrs)	LAmax	LAcq	LA90	weteorology	Description and SPL, dBA
						Insects <37
					WD: S	Traffic 40-76
18/10/2022		76	51	40	WS: 0.4m/s	Birds 37-46
	(Day)				Rain: Nil	Boral reverse alarms <37
						(3 minutes)
	Talbrag	ar Quarry L	Acq(15min)	Contribution		30
						Insects 36-40
						Birds 36-56
	06:00				WD: S	Traffic 36-64
18/10/2022	(Morning	64	46	39	WS: 0.6m/s	Rooster 36-49
	Shoulder)				Rain: Nil	Dogs 40-51
						Boral inaudible
	Talbrag	ar Quarry I	Aca(15min)	Contribution		<30

## Noise Monitoring Results - Quarter 3 Ending April 2022

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 5**.

		Descript	or (dBA re	20 µPa)		
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
	-					Traffic 41-51
07:10				WD: SE	Birds 44-65	
05/04/2022		65	46	43	WS: 0.1m/s	Livestock <41
	(Day)				Rain: Nil	Train 43-46
						Boral FEL barely perceptible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution	I	<33

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 6**.

		Descrip	tor (dBA re	20 µPa)		
Date	Date Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
			-		WD. 05	Traffic 40-64
0.510.4100.000	07:31		Birds 40-54			
05/04/2022	(Day)	98	68	43	WS: 0.1m/s	Train 49-98
					Rain: Nil	Boral inaudible
	Talbrag	gar Quarry I	Aeq(15min)	Contribution		<33
	00.45				WD. 05	Birds 39-59
	06:45				WD: SE	Traffic 42-73
05/04/2022	(Morning	73 51	51	43	WS: 0.3m/s	Local residential noise 39-54
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	gar Quarry I	Aeq(15min)	Contribution		<33

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date	<b>T</b> (1)	Descript	or (dBA re	20 µPa)	Meteorology	Description and CBL dBA
Date	Time (hrs)	LAmax	LAcq	LA90		Description and SPL, dBA
			49 40		WD: SE	Traffic 37-52
05/04/2022	08:10	74		WS: 0.1m/s	Birds 37-74	
03/04/2022	(Day)		Industrial noise <42			
					rvain: Nil	Boral inaudible
	Talbrag	<35				
						Birds 47-56
	06:28				WD: SE	Traffic 47-53
05/04/2022	(Morning	69	51	46	WS: 0.1m/s	Aircraft 50-69
	Shoulder)				Rain: Nil	Dog bark <47
						Boral inaudible
	Talbrao	ar Quarry L	Aca(15min)	Contribution	1	<36

Note: Day - the period from 7am to 5pm Wonday to Saturday or 8am to 5pm on Sundays and public holidays; Evening - the period from 5pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date Tim		Descriptor (dBA re 20 µPa)				D 1.4 100 101
	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
					WD: SE	Traffic 40-72
05/04/2022	07:50	72	53	47	WS: 0.1m/s	Birds 40-54
(Day)	(Day)				Rain: Nil	Boral processing 38-40
	Talbrag	ar Quarry L	Acq(15min)	Contribution	n	39
						Birds 45-64
	06:08	~			WD: SE	Traffic 42-69
05/04/2022	(Morning	69	52	43	WS: 0.1m/s	Rooster 44-58
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<33

## Noise Monitoring Results - Quarter 4 Ending July 2022

### Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in **Table 5**.

Data	Time (here)	Descript	or (dBA re	20 µPa)	Matanalami	Description and SPL, dBA
Date Tim	Time (hrs)	LAmax	LAeq	LA90	Meteorology	
07:03 07/06/2022 (Day)				WD: NW	Traffic 41-58	
	69	50	44	WS: 0.1m/s	Birds 41-69	
	(Day)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution		<34
	06:45				WD: NW	Birds 38-67
07/06/2022	(Morning	67	50	44	WS: 0.1m/s	Traffic 48-54
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Aeq(15min)	<34		

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 6**.

Table 6 Ope	erator-Attende	ed Noise S	Survey Re	esults – Lo	cation P10	
Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date		LAmax	LAeq	LA90	Meteorology	
08:00		-		44	WD: NW	Traffic 36-58
	08:00					Birds 38-63
07/06/2022	(Day)	72	55		WS: 0.1m/s	Aircraft 36-72
					Rain: Nil	Boral inaudible
	Talbrag	<34				

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date	Tree (her)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and OBL 4BA
Date Time (rits)	Time (hrs)	LAmax	LAcq	LA90		Description and SPL, dBA
0	07:42		50	43	WD: NW	Birds 36-72
07/06/2022		72			WS: 0.1m/s	Traffic 36-58
	(Day)				Rain: Nil	Boral inaudible
	Talbrag	1	<33			
	06:27				WD: NW	Traffic 40-64
						Birds 38-48
07/06/2022	(Morning	74	54	42	WS: 0.1m/s	Aircraft 36-74
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<32

Note: Day - the period from 7am to 5pm Monday to Saturday or 8am to 5pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date	Time (hrs)	Descript	tor (dBA re	20 µPa)	Meteorology	Description and SPL, dB/	
Date	Date (iiii)	LAmax	LAcq	LA90	weteorology	Description and arc, dox	
				WD: NW	Birds 46-54		
	07:21	79				Traffic 42-79	
07/06/2022	(Day)			57	47	WS: 0.1m/s	Rooster 46-54
					Rain: Nil	Boral inaudible	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<37	
						Traffic 37-66	
	06:07		50	41	WD: NW	Rooster 38-44	
07/06/2022	(Morning	66			WS: 0.1m/s	Birds 37-46	
	Shoulder)				Rain: Nil	Boral inaudible	
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<31	

## Noise Monitoring Results - Quarter 1 Ending October 2022

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in **Table 5**.

		Descriptor (dBA re 20 µPa)				
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
	17.00	54	43	40	WD: SW	Birds 37-54
12/09/2022	17:08				WS: 0.3m/s	Traffic 37-46
	(Day)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution	I.	<30
	00.42					Traffic 42-56
/ /	06:43				WD: NE	Birds 43-70
13/09/2022	(Morning	70	47	42	WS: 0.1m/s	Boral reverse alarms <43
	Shoulder)				Rain: Nil	(5 seconds)
	Talbrag	ar Quarry L	Aeq(15min)	Contribution		<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in **Table 6**.

<b>D</b> .	<b>T</b> : (1 )	Descriptor (dBA re 20 µPa)				
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
						Birds 34-51
	17:30	66 50			WD: SW WS: 0.2m/s Rain: Nil	Traffic 33-66
12/09/2022	(Day)		50	37		Livestock 36-46
						Boral inaudible
	Talbrag	<27				

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 7.

Date Time (hrs)		Descript	or (dBA re	20 µPa)	Meteorology	Description and ODL HDA
	Time (hrs)	LAmax	LAcq	LA90	Meteorology	Description and SPL, dBA
						Traffic 43-62
	16:45				WD: SW	Birds 46-58
12/09/2022	(Day)	62	49	46	WS: 0.3m/s	Aircraft 44-54
	(869)				Rain: Nil	
						Boral inaudible
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<36
						Birds 40-68
	06:21				WD: NE	Traffic 44-58
13/09/2022	(Morning	68	51	47	WS: 0.1m/s	Aircraft 46-54
	Shoulder)				Rain: Nil	Industrial noise <46
						Boral inaudible
	Talbrag	ar Quarry I	Aca(15min)	Contribution		<35

Note: Day - the period Pom 7am to Epm Monday to Saturday or Bam to Epm on Sundays and public holidays; Evening - the period Pom Epm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 8.

Date		Descript	or (dBA re	20 µPa)	Meteorology	Description and SPL, dBA
Date	Time (hrs)	LAmax	LAcq	LA90	Meteorology	
						Birds 48-62
16:27 12/09/2022 (Day)	79 54		46	WD: SW	Traffic 44-79	
		54		WS: 0.2m/s	Dog bark 46-54	
	(Bay)				Rain: Nil	Aircraft 42-56
						Boral processing <41
	Talbrag	ar Quarry L	Acq(15min)	Contribution	1	<41
	06:01				WD: NE	Birds 40-67
						Traffic 42-50
13/09/2022	(Morning	67	48	43	WS: 0.2m/s	Rooster 40-58
	Shoulder)				Rain: Nil	Boral inaudible
	Talbran	ar Quarry L	Aca(15min)	Contribution		<33

## Noise Monitoring Results - Quarter 2 Ending January 2023

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at

Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description and CDL alDA
Date Time (TIS)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA	
						Traffic 38-54
						Birds 38-56
12:10	10.10				WD: W	Livestock 37-46
15/12/2022		65	47	40	WS: 1m/s	Local residential noise <37
	(Day)				Rain: Nil	Aircraft 37-65
						Boral tipping 36-40
						(10 seconds)
	Talbrag	ar Quarry L	Aeq(15min)	Contribution	I	<20

location P4 (R2) for the NMA are presented in Table 5.

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in **Table 6**.

Data	Time (here)	Descript	tor (dBA re	20 µPa)	Mataaniaa	Description and CDL alD/
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
						Traffic 39-48
	11:34			40	WD: W WS <sup>:</sup> 1.8m/s	Insects 39-44
15/12/2022		63	44			Wind in vegetation 40-44
	(Day)	05			Rain: Nil	Birds 40-50
					Fight, INIT	Construction noise 40-63
						Boral inaudible
	Talbrag	gar Quarry L	.Aeq(15min)	Contribution		<30
	06:20				WD: S	Birds 39-59
16/12/2022	(Morning	78	55	42	WS: 0.1m/s	Traffic 39-78
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	gar Quarry L	Aeq(15min)	Contribution		<32

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 7**.

Data	T	Descript	or (dBA re	20 µPa)	Matanala	Description and CDL - IDA
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
						Birds 38-48
						Traffic 36-44
	11:16				WD: W	Wind in vegetation 36-40
15/12/2022 (Day)	67	46	38	WS: 1.2m/s	Insects 36-55	
	(Day)				Rain: Nil	Dog bark 40-52
						Aircraft 46-67
						Boral inaudible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution		<28
	06:37				WD: S	Birds 40-68
16/12/2022		68	47	42		Traffic 39-48
10/12/2022	(Morning	00	47	42	WS: 0.1m/s	Dog bark 39-44
	Shoulder)				Rain: Nil	Boral inaudible
	Talbrag	ar Quarry L	Aeq(15min)	Contribution		<32

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 8**.

Data	Time (here)	Descript	or (dBA re	20 µPa)	Matanalaa	Description and CDL dDA
Date	Time (hrs)	LAmax	LAeq	LA90	Meteorology	Description and SPL, dBA
						Traffic 39-71
					WD: W	Insects <39
	11:53	71	52 41			Birds 39-52
15/12/2022	(Day)	71 52		WS: 1m/s	Wind in vegetation 39-46	
					Rain: Nil	Boral processing 38-40
						(5 minutes)
	Talbrag	ar Quarry L	Aeq(15min)	Contribution		35
						Birds 44-58
	06:01				WD: S	Traffic 42-77
40/40/2022		77		15		Dog bark 48-60
16/12/2022	(Morning	77	55	45	WS: 0.1m/s	Boral reverse alarms 44-48
	Shoulder)				Rain: Nil	(2 minutes)
						Boral processing 34-40
	Talbrag	ar Quarry L	Aea(15min)	Contribution		37

## Noise Monitoring Results - Quarter 3 Ending April 2023

Assessment Results - Location P5

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 6.

		D	escriptor	r			
Date	Time (hrs)	(dBA	λ re 20 μ	Pa)	Meteo	rology	Description and SPL, dBA
		LAmax	LAeq	LA90	BoM 065070	Operator	-
		11				1	Wind in vegetation 37-61
	10:00				WD: E	WD: NE	Insects <37
23/02/2023	12:20	61	47	41	WS: 7.5m/s	WS: 2.6m/s	Birds 38-44
	(Day)				Rain: Nil	Rain: Nil	Boral haul trucks 35-46
							(3 minutes)
	Talbra	gar Quarŋ	/ LAeq(1	5min) Coi	ntribution		35
							Dog bark 59-66
							Insects <30
	06.41				WD: SE	WD: N	Traffic 32-39
24/02/2023	(Morning	66	46	34	WS: 4.6m/s	WS: 0.2m/s	Other industrial noise 30-34
24/02/2023	(Morning Shoulder)	00	40	34	Rain: Nil	Rain: Nil	Aircraft 30-52
	Shoulder)				Naill, Inii	Nain. Nii	Birds 36-54
							Boral haul trucks <37
							(1 minute)
	Talbra	gar Quarry	/ LAeq(1	5min) Coi	ntribution		<25

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P6

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 7.

Table 7 Ope	rator-Atte	ended N	oise Su	rvey Res	ults – Location	P6	
Date			Descripto A re 20 µ		Meteor	ology	Description and SPL, dBA
	(hrs)	LAmax	LAeq	LA90	BoM 065070	Operator	
							Wind in vegetation 39-54
	12:41				WD: ENE	WD: NE	Birds <39
23/02/2023		71	54	48	WS: 6.5m/s	WS: 2.3m/s	Traffic 42-71
	(Day)				Rain: Nil	Rain: Nil	Aircraft 40-67
							Boral inaudible
	Та	lbragar Qı	uarry LAe	eq(15min) C	Contribution		<36

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 8.

		D	escriptor	r			
Date	<b>—</b> — — — — — — — — — — — — — — — — — —	(dBA	re 20 µ	Pa)	Meteo	rology	
Date	Time (hrs)	LAmax	LAeq	LA90	BoM 065070	On and a	Description and SPL, dBA
					BOIM 065070	Operator	
							Wind in vegetation 46-61
	11:32				WD: E	WD: NE	Insects <46
23/02/2023		61	51	49	WS: 8.1m/s	WS: 2.2m/s	Birds <46
	(Day)				Rain: Nil	Rain: Nil	Traffic 46-52
							Boral inaudible
	Talbra	gar Quarry	/ LAeq(15	5min) Cor	ntribution		<39
							Other industrial noise 38-46
							Insects 38-41
	06:20				WD: SE	WD: N	Birds 51-57
24/02/2023	(Morning	67	48	39	WS: 3.5m/s	WS: 0.1m/s	Traffic <44
	Shoulder)				Rain: Nil	Rain: Nil	Aircraft 41-67
							Dog bark 42-49
							Boral inaudible
	Talbra	gar Quarn	/ LAea(1	5min) Co	ntribution		<29

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods. Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.

		D	escriptor	r			
Date	Time (hrs)	(dBA	v re 20 µ	Pa)	Meteo	rology	Description and SPL, dBA
Date	nine (iii3)	LAmax	LAeq	LA90	BoM 065070	Operator	
							Wind in vegetation 45-54
	12:00				WD: ESE	WD: NE	Traffic 45-73 Insects 45-49
23/02/2023	(Day)	73	54	48	WS: 8.1m/s Rain: Nil	WS: 2m/s Rain: Nil	Birds 46-52
							Boral processing 43-50 (5 minutes)
	Talbra	gar Quarry	/ LAeq(1	5min) Co	ntribution		40
24/02/2023	06:00	66	46	41	WD: SE	WD:N WS <sup>:</sup> 01m/s	Traffic 39-66 Insects 39-42 Birds 46-51
24/02/2023	(Morning Shoulder)	00	40	41	Rain: Nil	Rain: Nil	Other industrial noise 40-50 Rooster 40-46 Boral inaudible
	Talbra	gar Quarn	/ LAeg(15	5min) Co	ntribution		<31

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Talbragar Quarry Environmental Monitoring Report – Noise

## Noise Monitoring Results - Quarter 4 Ending July 2023

Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 6.

Table 6 Ope	rator-Attend	ed Noise	Surve	y Resul	ts – Location F	P4	
		De	escripto	r			
Date	Date Time (hrs)	(dBA	v re 20 µ	Pa)	Meteo	rology	Description and SPL, dBA
Date	Time (Tits)	LAmax	LAea	LA90			
		Danax	Dicq	2100	BoM 065070	Operator	
							Birds 43-53
							Dog bark 43-52
	12:28				WD: NNW	WD: N	Traffic 44-66
07/06/2023	(Day)	66	47	42	WS: 7.6m/s	WS: 2.0m/s	Livestock 41-46
	(Day)				Rain: Nil	Rain: Nil	Local residential noise 45-48
							Boral processing 39-43
							(10 seconds)
	Talbra	gar Quarry	/ LAeq(1	5min) Coi	ntribution		22
							Traffic 33-53
	06:07				WD: E	WD: NE	Birds 33-39
08/06/2023	(Morning	53	37	30	WS: 2.4m/s	WS: 0.5m/s	Livestock <35
	Shoulder)				Rain: Nil	Rain: Nil	Insects 35-42
							Boral inaudible
	Talbra	gar Quarry	/ LAeq(1	5min) Co	ntribution		<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P10

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 7.

Table 7 Ope	erator-Atte	ended N	oise Su	rvey Res	ults – Location I	P10	
	_		Descripto				
Date	Time	(dB	A re 20 µ	ıPa)	- Meteor	ology	Description and SPL, dBA
	(hrs)	LAmax	LAeq	LA90	BoM 065070	Operator	
							Traffic 40-48
							Birds 46-54
	40.50				WD: NNW	WD: N	Aircraft 40-65
07/06/2023	12:50	65	47	39	WS: 5.1m/s	WS: 1.2m/s	Boral processing 38-42
	(Day)				Rain: Nil	Rain: Nil	(constant)
							Boral reverse alarms 37-42
							(5 minutes)
	Та	40					

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 8.

Table 8 Ope	rator-Attend	ed Noise	Surve	y Resul	ts – Location F	P12	
Date	Time (hrs)			Meteo	rology	Description and SPL, dBA	
		LAmax	LAeq	LA90	BoM 065070	Operator	
							Wind in trees 49-52
07/06/2023	12:53 (Day)	68	50	44	WD: NNW WS: 5.1m/s Rain: Nil	WD: N WS: 2.0m/s Rain: Nil	Traffic 44-47 Aircraft 48-68 Birds 42-54 Boral processing 41-46 (5 minutes)
	Talbra	gar Quarŋ	/ LAeq(1	5min) Coi	ntribution		38
08/06/2023	06:28 (Morning Shoulder)	75	49	37	WD: ENE WS: 1.9m/s Rain: Nil	WD: NE WS: 0.5m/s Rain: Nil	Traffic 40-75 Birds 39-53 Dog bark 35-38 Boral inaudible
	Talbra	<27					

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.

Table 9 Ope	rator-Attend	ed Noise	e Surve	y Resul	lts – Location F	P14	
			escripto \ re 20 µ		Meteo	rology	
Date	Time (hrs)	LAmax	LAeq	LA90	BoM 065070	Operator	Description and SPL, dBA
07/06/2023	12:12 (Day)	75	53	44	WD: NNW WS: 8.9m/s Rain: Nil	WD: N WS: 2.0m/s Rain: Nil	Wind in trees 43-52 Traffic 43-75 Birds 44-56 Boral truck movements <41 Boral reverse alarms <41 Boral tipping 47-56 (3 seconds)
	Talbra	gar Quarry	y LAeq(1	5min) Coi	ntribution		<41
08/06/2023	06:00 (Morning Shoulder)	72	46	30	WD: ENE WS: 2.9m/s Rain: Nil	WD: W WS: 0.2m/s Rain: Nil	Traffic 42-72 Livestock 30-32 Rooster 28-36 Boral inaudible
	Talbra	gar Quarry	/ LAeq(1	5min) Coi	ntribution		<20

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Talbragar Quarry Environmental Monitoring Report – Noise

## Noise Monitoring Results - Quarter 1 Ending October 2023

Assessment Results - Location P5 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P5 (R3) for the NMA are presented in Table 6.

		D	escriptor	r			
Date Tim	Time (hrs)	(dBA re 20 µPa)			Meteo	rology	Description and CDL alDA
Date	Time (nrs)	LAmax	LAeq	LA90	-		Description and SPL, dBA
			2,104	2,00	BoM 065070	Operator	
							Wind in vegetation 42-48
							Aircraft 43-61
							Traffic 40-50
					WD: S	WD: SW	Birds 41-51
11:16 21/09/2023 (Day)	61	46	41	WS: 4.6m/s	WS: 4.5m/s	Boral haul trucks 38-43	
	(Day)				Rain: Nil	Rain: Nil	(3 minutes)
							Impact (2 seconds) 50
							Reverse alarm 43
							(20 seconds)
	Talbra	gar Quarry	/ LAeq(18	ōmin) Cor	ntribution		35
							Traffic 31-46
					NID 005	WD 05	Birds 33-59
_ / /	06:42				WD: SSE	WD: SE	Boral trucks 36-49
2/09/2023	(Morning	59	43	35	WS: 4.6m/s	WS: 0.5m/s	(2 minutes)
Shoulder	Shoulder)				Rain: Nil	Rain: Nil	Reverse alarm 37
							(15 seconds)
	Talbra	gar Quarry	/ LAea(18	5min) Cor	ntribution		34

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P6 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P6 (R4) for the NMA are presented in Table 7.

Table 7 Ope	erator-Atte	ended N	oise Su	rvey Res	ults – Location I	P6	
Date	Time Date		Descripto A re 20 µ		Meteor	ology	Description and SPL, dBA
Date	(hrs)	LAmax	LAeq	LA90	BoM 065070	Operator	
							Wind in vegetation 32-38
					WD: S	WD: SW	Birds 36-71
21/09/2023	10:52	83	58	38	WS: 5.9m/s	WS: 4.0m/s	Traffic 40-83
	(Day)				Rain: Nil	Rain: Nil	Aircraft 33-60
							Boral inaudible
	Та	lbragar Qı	uarry LAe	q(15min) C	ontribution		<28

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Talbragar Quarry Environmental Monitoring Report – Noise

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in Table 8.

		De	escriptor				
Date	Time (hrs)	(dBA	re 20 μl	Pa)	Meteo	rology	Description and SPL, dBA
	()	LAmax	LAeq	LA90			
					BoM 065070	Operator	
							Wind in vegetation 38-40
							Birds 40-51
	11:56				WD: SSW	WD: SW	Traffic 38-57
21/09/2023		57	43	39	WS: 5.9m/s	WS: 3.5m/s	Boral haul trucks 39-45
(Day)	(Day)				Rain: Nil	Rain: Nil	(8 minutes)
							Reverse alarm 43
							(15 seconds)
	Talbra	gar Quarry	/ LAeq(15	imin) Cor	ntribution		40
							Other industrial noise 43-4
	06:00				WD: SSE	WD: SE	Birds 35-64
22/09/2023	(Morning	64	45	38	WS: 5.1m/s	WS: 0.3m/s	Traffic 36-57
	Shoulder)				Rain: Nil	Rain: Nil	Dog bark <38
							Boral inaudible
	Talbra	gar Quarry	/ LAea(15	imin) Cor	ntribution		<28

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

#### Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.

		D	escripto				
Date	Time (hrs)	(dBA re 20 µPa)			Meteo	rology	Description and SPL, dBA
Dato	11110 (1110)	LAmax	LAeq	LA90			Description and Sr E, dBA
				BoM 065070	Operator		
							Traffic 41-59
							Dogs barking 46-48
							Birds 42-54
	16:40				WD: SSW	WD: SE	Boral processing 38-41
21/09/2023	(Day)	68	48	43	WS: 4.6m/s	WS: 3.5m/s	(1 minute)
	(Day)				Rain: Nil	Rain: Nil	Reverse alarm 40-50
							(30 seconds)
							Boral tipper 68
							(1 seconds)
	Talbra	gar Quarn	y LAeq(1	ōmin) Coi	ntribution		39
	06:22				WD: SSE	WD: SE	Traffic 42-74
22/09/2023	(Morning	74	54	41	WD: 55E WS: 5.1m/s	WD: 5E WS: 0.5m/s	Birds 41-62
22/09/2023	(Morning Shoulder)	74	54	41	Rain: Nil	Rain: Nil	Aircraft 45-65
	snouider)				Rain: Nil	Rain: Nil	Boral inaudible
	Talbra	gar Quarry	/ LAeq(1	5min) Co	ntribution		<31

# Noise Monitoring Results - Quarter 2 Ending February 2024 Assessment Results - Location P4 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at

location P4 (R2) for the NMA are presented in Table 6.

		D	escripto	r			
Date 1		(dBA	re 20 µ	Pa)	Meteo	rology	
	Time (hrs)				•		Description and SPL, dBA
		LAmax	LAeq	LA90	BoM 065070	Operator	
							Wind in vegetation 39-48
							Traffic 40-50
	17:43				WD: E	WD: E	Birds 40-58
08/02/2024	(Day)	65	46	39	WS: 7.0m/s	WS: 2.5m/s	Aircraft 42-65
	(Day)				Rain: Nil	Rain: Nil	Livestock 42-54
							Boral processing 40-42
							(4 minutes)
	Talbra	gar Quarry	LAeq(1	śmin) Cor	ntribution		38
							Insects 37-41
							Birds 42-52
	06:37				WD: ESE	WD: SE	Traffic 40-51
09/02/2024	(Morning	67	47	41	WS: 4.6m/s	WS: 0.5 m/s	Dogs barking 45-67
	Shoulder)				Rain: Nil	Rain: Nil	Aircraft 43-63
							Boral general noise 36-40
							(5 minutes)
	Talbra	gar Quarry	LAeq(1	śmin) Cor	ntribution		38

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining perioda.

#### Assessment Results - Location P10 (Reference Location)

The monitored noise level contributions and meteorological conditions for each assessment period at location P10 (R8) for the NMA are presented in Table 7.

		[	Descripto	r				
Date	Time (hrs)	(dBA re 20 µPa)			Meteorology		Description and SPL, dBA	
		LAmax	LAeq	LA90	-		-	
					BoM 065070	Operator		
08/02/2024	11:54 (Day)	60	45	42			Traffic 43-60	
							Wind in vegetation 42-45	
							Birds 44-52	
					WD: E	WD: E	Offsite impact 45-48	
					WS: 6.5m/s	WS: 1.8m/s	Dogs barking 40-42	
					Rain: Nil	Rain: Nil	Boral reverse alarm 44-47	
							(<30 seconds)	
							Boral processing 38-47	
							(13 minutes)	
Talbragar Quarry LAeq(15min) Contribution							42	

Note: Day - the pariod from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the pariod from 6pm to 10pm; Night - the remaining pariods.

#### Talbragar Quarry Environmental Monitoring Report – Noise

The monitored noise level contributions and meteorological conditions for each assessment period at location P12 (R10) for the NMA are presented in **Table 8**.

		De	escriptor					
Date	Time (hrs)	(dBA re 20 µPa)			Meteorology		Description and SPL, dBA	
		LAmax	LAeq	LA90				
					BoM 065070	Operator		
							Wind in vegetation 42-47	
	12:12 (Day)	67	48	44	WD: E WS: 5.9m/s Rain: Nil		Birds 44-53	
						WD. 5	Traffic 43-51	
0.0000004						WD: E WS: 1.5m/s Rain: Nil	Insects 41-44	
08/02/2024							Industrial noise 44-48	
							Aircraft 45-67	
							Boral processing 41-45	
							(14 minutes)	
	Talbra	gar Quarry	y LAeq(15	imin) Cor	ntribution		43	
							Birds 42-60	
	00.40				WD. 505	11/D. F	Industrial noise 39-42	
09/02/2024	06:18 (Morning Shoulder)	60	41	38	WD: ESE WS: 5.1 m/s Rain: Nil	WD: E WS: 0.5m/s Rain: Nil	Traffic 38-40	
							Dogs barking 38-39	
							Insects 36-38	
							Boral general noise <35	
	Talbra	gar Quarry	/LAeg(15	imin) Cor	tribution		<35	

Note: Day - the period from 7am to 6pm Monday to Saturday or 8am to 6pm on Sundays and public holidays; Evening - the period from 6pm to 10pm; Night - the remaining periods.

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in **Table 9**.

		D	escripto	r			
Date	Time (hrs)	(dBA re 20 µPa)			Meteorology		Description and SPL, dB/
		LAmax	LAeq	LA90	BoM 065070	Operator	
					2011/000010	operation	Wind in vegetation 39-45
	17:18 (Day)	68	53	42	WD: ESE WS: 7.6m/s		Birds 44-53
						WD: E WS: 3.5m/s Rain: Nil	Traffic 43-68
00000004							Aircraft 41-50
08/02/2024					Rain: Nil		Livestock 46-55
					Rain: Nil		Insects 39-68
							Boral processing 35-42
							(<4 minutes)
	38						
							Birds 36-52
09/02/2024	06:00 (Morning Shoulder)		50	38	WD: ESE WS: 4.1m/s	WD: SE WS: 0.5m/s Rain: Nil	Traffic 37-69
							Insects 35-38
					Rain: Nil		Dogs barking 39-44
					Rain, Nil		Industrial noise 37-40
							Boral inaudible
	Talbra	gar Quarry	LAeq(1	5min) Co	ntribution		<28

## Talbragar Quarry Noise Monitoring Locations



	<b>Noise Monitoring Results - Corrections Log</b> Details of corrections made to published data due to incorrect or misleading data <sup>3.7.7</sup>									
Date of data (sample date)	Old published data	Correct updated data	Reason for Update/Correction	Update Person	Date corrected data published	Comments				