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Environmental Monitoring Report – Blast Monitoring Data

Talbragar Quarry

March 2024

Date Published: 2nd April 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 2016 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.aspx?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:

- Blasting

Blasting

Blast monitoring is conducted as per condition L5 of EPL 899. The blasting monitoring results are summarised below.

Monitoring Period: May 2016 – Present day
Licensee: Talbragar Quarry
Licensee Address: Brocklehurst, Dubbo, NSW 2830
EPL No: 899

Qualifications related to blasting:

L5.1 The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L5.2 The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not taken into account in determining whether or not the limit has been exceeded.

L5.3 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

L5.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any time at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.

Note "Noise sensitive locations" includes buildings used as a residence, hospital, school, child care centre, places of public worship and nursing homes. A noise sensitive location includes the land within 30 metres of the building.

L5.5 Blasting at the premises may only take place between 9:00am - 5:00pm Monday to Friday. Blasting is not permitted on weekends or public holidays.

L5.6 Blasting outside of the hours specified in L4.5 can only take place with written approval of the EPA.

NOTE: A breach of the licence will still occur where airblast pressure or ground vibration levels from the blasting operations at the premises exceeds the limit specified in conditions L4.1 to L4.4 at any "noise sensitive locations".

L5.7 The airblast overpressure and ground vibration levels in conditions L4.1 to L4.4 do not apply at noise sensitive locations that are owned by the licensee or subject to a private agreement, relating to airblast overpressure and ground vibration levels, between the licensee and land owner.

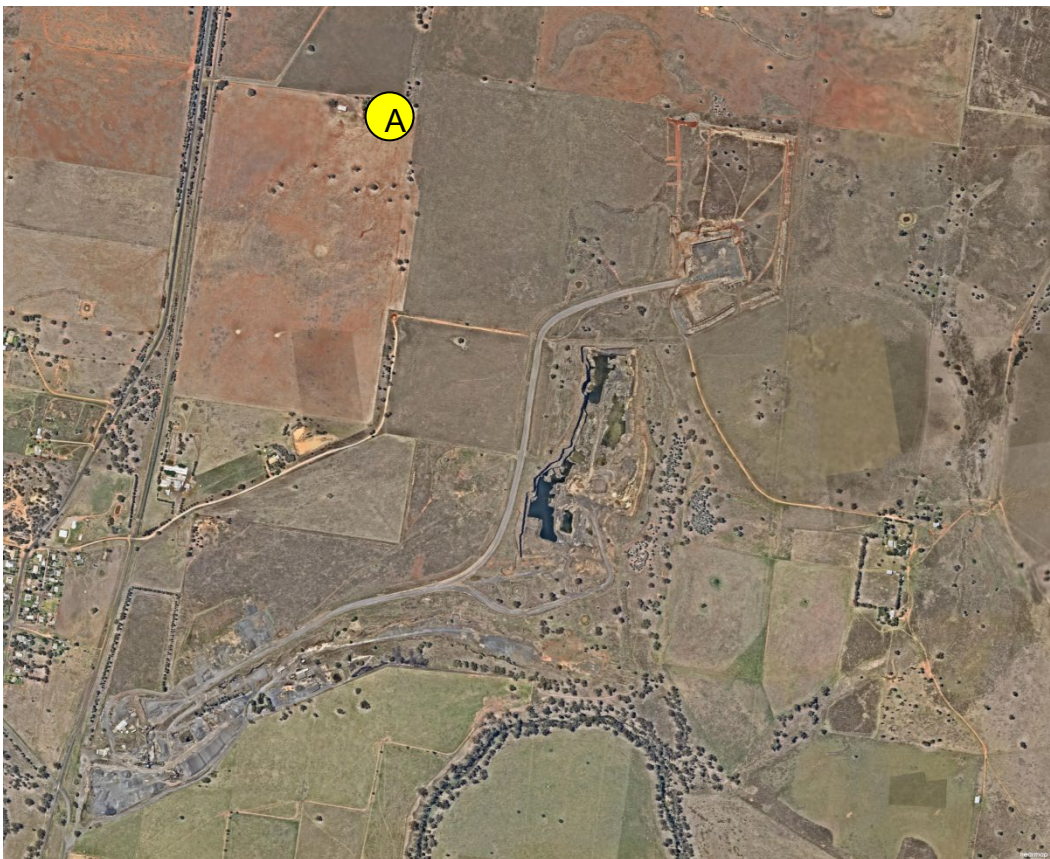
Blast Monitoring Results

Monitor Location	Blast Date	Results Received	Blast Time	Ground Vibration Results (mm/s)	GV Compliant?	Over-pressure Result (dBL)	OP Compliant?	Comments
No blasts from 1/11/2023 to 15/01/2024								
Mogriguy farm house	25/1/2024	25/1/2024	10:45	0.57	Yes	103.5	Yes	
Mogriguy farm house	31/10/2023	31/10/2023	9:25	0.5	Yes	100	Yes	
Mogriguy farm house	21/8/2023	22/8/2023	14:50	0.56	Yes	109.3	Yes	
Mogriguy farm house	9/5/2023	10/5/2023	11:11	0.88	Yes	109.2	Yes	
Mogriguy farm house	28/2/2023	1/3/2023	10:06	0.24	Yes	108.4	Yes	
Mogriguy farm house	13/12/2022	14/12/2022	9:49	1.16	Yes	106.1	Yes	
Mogriguy farm house	14/11/2022	15/11/2022	15:18	0.74	Yes	105.8	Yes	
Mogriguy farm house	7/9/2022	8/9/2022	9:00	0.46	Yes	112.7	Yes	
Mogriguy farm house	31/8/2022	1/9/2022	9:01	1.5	Yes	106	Yes	
Mogriguy farm house	30/8/2022	1/9/2022	11:06	0.14	Yes	102.2	Yes	
Mogriguy farm house	12/4/2022	13/4/2022	9:26	2.1	Yes	106	Yes	
Mogriguy farm house	8/2/2022	9/2/2022	16:06	0.16	Yes	101.5	Yes	Blast monitoring locations were reviewed. This property was identified as the closest sensitive receiver to the current pit.
Marrington Road	16/11/2021	17/11/2021	09:08	0.52	Yes	100.9	Yes	
Marrington Road	30/08/2021	01/09/2021	15:07	0.64	Yes	101.1	Yes	
Marrington Road	17/08/2021	17/08/2021	16:11	0.21	Yes	98.9	Yes	
Marrington Road	06/05/2021	07/05/2021	15:34	0.185	Yes	101.9	Yes	
Marrington Road	15/03/2021	16/03/2021	16:09	0.684	Yes	103.5	Yes	
Marrington Road	29/03/2021	30/03/2021	10:39	0.311	Yes	107.5	Yes	
Marrington Road	21/09/2020	21/09/2020	14:35	0.42	Yes	102.9	Yes	
Marrington Road	21/07/2020	21/07/2020	09:21	0.53	Yes	106.2	Yes	
Marrington Road	18/03/2020	18/03/2020	09:24	0.22	Yes	100.6	Yes	
Marrington Road	16/12/2019	16/12/2019	16:31	0.07	Yes	110.9	Yes	
Marrington Road	30/09/2019	30/09/2019	16:04	0.07	Yes	109.4	Yes	
House (Mogriguy)	13/03/2019	13/03/2019	13:56	0.14	Yes	111	Yes	
Marrington Road	13/03/2019	13/03/2019	13:56	0.20	Yes	105	Yes	
House (Mogriguy)	19/02/2019	19/02/2019	09:40	1.58	Yes	100	Yes	
Marrington Road	19/02/2019	19/02/2019	09:40	0.96	Yes	103	Yes	
House (Mogriguy)	23/10/2018	23/10/2018	09:22	0.16	Yes	104.9	Yes	
Marrington Road	23/10/2018	23/10/2018	09:22	0.17	Yes	104.9	Yes	
House monitor	24/04/2018	24/04/2018	10:13	0.19	Yes	113.3	Yes	
Mogriguy Road	01/03/2018	01/03/2018	10:19	0.21	Yes	107.4	Yes	
Pig farm	19/10/2017	20/10/2017	16:52	No Trigger	Yes	No Trigger	Yes	

Mogriguy farm house	19/10/2017	20/10/2017	16:52	No Trigger	Yes	No Trigger	Yes	
Pig farm	23/06/2017	24/06/2017	09:43	0.262	Yes	109.5	Yes	
Mogriguy farm house	23/06/2017	24/06/2017	09:43	0.190	Yes	108	Yes	
Pig farm	12/01/2017	16/01/2017	10:25	0.2436	Yes	113	Yes	
Mogriguy Farm House	11/08/2016	17/08/2016	09:45	No Trigger	Yes	No Trigger	Yes	
Pig Farm	19/05/2016	20/05/2016	10:39	No trigger	Yes	No trigger	Yes	

Trigger levels set on the blast monitor for air blast were 105 dBL and ground vibration 3.0 mm/s. When these levels are not exceeded then “No Trigger” is described, which confirms that blast limits were below the trigger levels.

Talbragar Quarry- Blast Monitoring Location



Blast Monitoring Results - Corrections Log

Details of corrections made to published data due to incorrect or misleading data^{3.7.7}

Date of data (sample date)	Old published data	Correct updated data	Reason for Update/Correction	Update Person	Date corrected data published	Comments