Environmental Monitoring Report –
Blast Monitoring Data

Macksville Quarry

September 2023

Date Published: 6 September 2023

This monitoring report is to satisfy the requirements of Section 66 (6) of the *Protection of the Environment and Operations Act 1997*, to make available, within 14 days of request, any monitoring data that relates to pollution under an Environment Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 20555 (EPL 20555 – Boral Macksville Quarry).

This report provides environmental monitoring data for Macksville Quarry for the period September 2019 to September 2023.

Macksville Quarry Information	
Premise Details	Boral - Macksville Quarry
Address	Pacific Highway, Macksville, NSW, 2447
Licensee	Boral Resources (Country) Pty Ltd
EPL No	20555
EPL Location	https://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=44304&SYSUID=1&LICID=20555

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 L5.2 of EPL 20555. The blast monitoring results are summarised below.

Sample Period:	September 2023
Licensee:	Macksville Quarry
Licensee Address:	Pacific Highway, Macksville, NSW, 2447
EPL No:	20555

Qualifications related to blasting:

L5.2 The airblast overpressure level from blasting operations in or on the premises must not exceed:
a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and
b) 120 dB (Lin Peak) at any time.
At the most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.

L5.3 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:
a) 5 mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and
b) 10 mm/s at any time.
At the most affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level

NOTE: Where no data has been published for a particular date there has been no blasting activity undertaken for that date[3.7.8]

Teven Quarry: EPL 2261 - Blast Monitoring Results												
EPL Identification (Shot Number)	Monitoring Frequency	Date Sampled	Blast Time	Date Results Obtained	Date Results Published	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Most affected residence	Sample Complaint (YES/NO)	Comments
						Over Pressure (dB)	Peak Vibration (mm/s)	Over Pressure (dB)	Peak Vibration (mm/s)			
						115	5					
						120	10					
MVQ 2023-04	Per event	01/08/2023	9:10	02/08/2023	06/09/2023	108.5	0.861			Location A	YES	
MVQ 2023-03	Per event	30/05/2023	9:31	31/05/2023	06/09/2023	106.9	1.4			Location A	YES	
MVQ 2023-01	Per event	04/05/2023	9:17	10/05/2023	06/09/2023	101	2.96			Location A	YES	
MVQ 2023-02	Per event	04/05/2023	9:30	10/05/2023	06/09/2023	103.5	1.772			Location A	YES	
MVQ 2022-04	Per event	31/01/2023	12:58	01/02/2023	06/09/2023	108.3	0.93			Location A	YES	
MVQ 2022-03	Per event	19/07/2022	9:15	18/08/2023	06/09/2023	106.3	4.18			Location A	YES	
MVQ 2022-01	Per event	17/05/2022	9:36	18/05/2021	23/06/2022	110	2.37			Location A	YES	
MVQ 2022-02	Per event	17/05/2022	9:52	18/05/2021	23/06/2022	112.8	2.27			Location A	YES	
MVQ 2021-03	Per event	07/10/2021	14:33	08/10/2021	23/06/2022	105.1	1.59			Location A	YES	
MVQ 2021-02	Per event	20/09/2021	14:01	21/09/2021	23/06/2022	116.6	1.87			Location A	YES	
MVQ 2021-01	Per event	14/04/2021	14:55	20/04/2021		110	5.514			Location A	No	This blast recorded a ground vibration reading of 5.514, which is above the 95% limit of 5mm/s but less than the max limit of 10mm/s. This result was reported to the EPA
MVQ 2019-01	Per event	4/12/2019	12:17	4/12/2019		117	1.87			Location A	No	This blast recorded an overpressure reading of 117, which is above the 95% limit of 115dB but less than the max limit of 120dB. This result was reported to the EPA

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