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Macksville Quarry

Environmental Monitoring Report

Blast Monitoring Data

April 2024



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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 obtaining 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)

Macksville Quarry Information	
Premise Details	Boral – Macksville Quarry
Address	13 Pacific Highway, Macksville (Way Way) NSW 2447
Licensee	Boral Resources (Country) Pty LIMITED
EPL No	20555
EPL Location	ViewPOEOLicence.aspx (nsw.gov.au)
Date of dataset update	10/02/2024

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

- Blasting



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Blasting

Blast monitoring is conducted as per condition L5 of EPL 20555.

Qualifications related to blasting:

Extracted from EPL: 20555 – L5.1 to L5.6 (summarised)

- Blasting operations at the premises only take place between 9:00am and 3:00 pm weekdays. Where compelling safety reasons exist, the Environment Protection Authority may permit a blast to occur outside the abovementioned hours. Prior written notification of any such blast must be made to the Environment Protection Authority.
- 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 percent of the total number of blasts over each reporting period, or one blast in each reporting period, whichever is the greater.
 - 120 dB (Lin Peak) at any time at any residence or noise sensitive location.
- 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.
 - 5mm/sec at any noise sensitive locations for more than five percent of the total number of blasts in the reporting period, or one blast in each reporting period, whichever is the greater.
- Blasting must not take place when there is heavy cloud cover, severe temperature inversion, or winds of velocity greater than 10 m/s blowing towards residences not associated with the quarry.

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



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TABLE 1: Macksville Quarry – Blast Monitoring Results

EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
MVQ23-05	Per Blast	11/12/2023	12:58	102.2	3.24			Location A	YES	
MVQ23-06	Per Blast	22/11/2023	09:05	107.0	1.16			Location A	YES	
MVQ23-04	Per Blast	01/08/2023	09:10	108.5	0.86			Location A	YES	
MVQ23-03	Per Blast	30/05/2023	09:31	106.9	1.40			Location A	YES	
MVQ23-01	Per Blast	04/05/2023	09:17	101.0	2.96			Location A	YES	
MVQ23-02	Per Blast	04/05/2023	09:30	103.5	1.77			Location A	YES	
MVQ22-04	Per Blast	31/01/2023	12:58	108.3	0.93			Location A	YES	
MVQ22-03	Per Blast	19/07/2022	09:15	106.3	4.18			Location A	YES	
MVQ22-01	Per Blast	17/05/2022	09:36	110.0	2.37			Location A	YES	
MVQ22-02	Per Blast	17/05/2022	09:52	112.8	2.27			Location A	YES	
MVQ21-03	Per Blast	07/10/2021	14:33	105.1	1.59			Location A	YES	
MVQ21-03	Per Blast	20/09/2021	14:01	116.6	1.87			Location A	YES	
MVQ21-03	Per Blast	14/04/2021	14:55	110.0	5.51			Location A	No	This blast recorded a ground vibration reading of 5.51 mm/s, 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 however remained compliant with EPL 20555.



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TABLE 2: Blast Monitoring Results – Corrections Log

Date of Data (sample Date)	Old Published Data	Corrected Data	Reason for Update / Correction	Update Person	Date corrected Data Published	Comments

Note: The table above details the corrections made to published data due to incorrect reporting or misleading published data.



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