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Environmental Monitoring Report – Blast Monitoring Data

Peats Ridge Quarry

April 2024

Date Published: 1 May 2024

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 21022 (EPL 2068 – Peats Ridge Quarry)

This report provides environmental monitoring data for Peats Ridge Quarry for the period October 2015 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.

Peats Ridge Quarry Information	
Premise Details	Boral – Peats Ridge Quarry
Address	Bushells Road, Peats Ridge NSW 2250
Licensee	Boral Resources (NSW) Pty Ltd
EPL No	2068
EPL Location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33573&SYSUID=1&LICID=2068
Date of dataset update	1/05/2024

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 L3 of EPL 2068

**Qualifications related to blasting:
Extracted from EPL: 2068**

L3.1 The air blast 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.

L3.2 The air blast 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 to be taken into account in determining whether or not the limit has been exceeded.

L3.3 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.

L3.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec 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: 1. The air blast overpressure and ground vibration levels in conditions L5.1 to L5.4 do not apply at noise sensitive locations that are owned by the licensee or are subject to a private agreement, relating to air blast overpressure and ground vibration levels, between the licensee and the landowner. 2. "Noise sensitive locations" includes buildings used as a residence, hospital, school, child care centres, places of worship and nursing homes. A noise sensitive location includes the land within 30m of the building.

L3.5 To determine compliance with condition(s) L3.1, L3.2, L3.3 and L3.4:

- (a) Airblast overpressure and ground vibration levels must be measured at at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital for all blasts carried out in or on the premises; and
 - (b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993.
- L5.6 Blasting at the premises is limited to 1 blast each day on which blasting is permitted.

L3.6 Blasting operations at the premises may only take place between 9:00am-3:00pm Monday to Friday. Blasting is not permitted on public holidays. Blasting outside the hours specified above can only take place with the written approval of the EPA.

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

Blast Monitoring Results											
Location	Monitoring Frequency	Date Sampled	Date Results Obtained	Date Results Published	Time of Blast	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sample Compliant? (YES/NO)	Comments
						Over Pressure (dB)	Peak Vibration (mm/s)	Over Pressure (dB)	Peak Vibration (mm/s)		
						115	5				
						120	10				
Cess's Property	Per Blast	12/02/18	12/02/18		14:59	No trigger	No trigger	115	5	YES	
Cess's Property	Per Blast	16/04/18	16/04/18		14:43	101.3	No trigger	115	5	YES	
Cess's Property	Per Blast	15/06/18	15/06/18		13:32	No trigger	No trigger	115	5	YES	
Cess's Property	Per Blast	09/08/18	09/08/18		14:34	113	1.048	115	5	YES	
Cess's Property	Per Blast	20/09/18	20/09/18		12:43	No trigger	No trigger	115	5	YES	
Cess's Property	Per Blast	15/10/18	15/10/18		14:23	93.47	0.38	115	5	YES	
Cess's Property	Per Blast	04/03/19	04/03/19		12:53	94	0.68	115	5	YES	
Cess's Property	Per Blast	07/05/19	07/05/19		13:16	104	1.1	115	5	YES	
Cess's Property	Per Blast	28/06/19	28/06/19		14:37	105	1.3	115	5	YES	
Cess's Property	Per Blast	12/08/19	12/08/19		11:36	100	0.5	115	5	YES	
Cess's Property	Per Blast	19/08/19	19/08/19		13:25	100	0.5	115	5	YES	
Cess's Property	Per Blast	02/09/19	02/09/19		11:58	102.6	2.87	115	5	YES	
Cess's Property	Per Blast	24/09/19	24/09/19		13:23	100	0.5	115	5	YES	
Cess's Property	Per Blast	23/10/19	23/10/19		12:12	95.44	1.53	115	5	YES	
Cess's Property	Per Blast	29/10/19	29/10/19		12:45	91.99	2.42	115	5	YES	
Cess's Property	Per Blast	26/11/19	26/11/19		11:02	111	2.984	115	5	YES	
Cess's Property	Per Blast	28/01/20	28/01/20		14:45	105	0.46	115	5	YES	
Cess's Property	Per Blast	17/08/20	17/08/20		12:59	111	0.98	115	5	YES	
Cess's Property	Per Blast	28/09/20	28/09/20		12:53	100	0.50	115	5	YES	
Cess's Property	Per Blast	21/10/20	21/10/20		11:53	104.3	1.821	115	5	YES	
Cess's Property	Per Blast	17/12/20	17/12/20		13:38	No trigger	No trigger	115	5	YES	
Cess's Property	Per Blast	27/01/21	27/01/21		12:45	No trigger	No trigger	115	5	YES	
Cess's Property	Per Blast	30/07/21	02/08/21		13:02	98.89	1.175	115	5	YES	
Cess's Property	Per Blast	03/09/21	07/09/21		14:30	100.4	0.177	115	5	YES	
Cess's Property	Per Blast	15/04/24	15/04/24	01/05/24	14:13	100	4.00	115	5	YES	

* Less than 5% of the total number of blasts carried out on the premises during respective reporting period.**Trigger levels set on the monitor for air blast are 100 dbL and ground vibration 0.5 mm/s.

Peats Ridge 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