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Environmental Monitoring Report – Blast Monitoring Data

Beryl Quarry

November 2023

Date Published: 6th November 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 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 3630 (EPL 3630 – Boral Beryl Quarry).

Beryl Quarry Information	
Premise Details	Boral – Beryl Quarry
Address	Springridge Road, Beryl, NSW 2852
Licensee	Boral Resources (Country) Pty Ltd
EPL No	3630
EPL Location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31229&SYSUID=1&LICID=3630
Date of dataset update	03/11/2023

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 M3.1 of EPL 3630.

Qualifications related to blasting: Extracted from EPL: 3630

L3 Blasting

L3.1 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 to be taken into account in determining whether or not the limit has been exceeded.

L3.2 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.

L3.3 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.

L3.4 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.

L3.5 Blasting in or on the premises must only be carried out between 0900 hours and 1500 hours, Monday to Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without the prior 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

M4 Blasting

M4.1 To determine compliance with condition(s) L3.1 to L3.4:

(a) Airblast overpressure and ground vibration levels must be measured at any point that is at least 3.5 metres but not more than 30 metres from any affected residence or other noise sensitive site that is not owned by the licensee, or subject to a private agreement between the owner and the licensee as to alternative levels for all blasts carried out in or on the premises; and

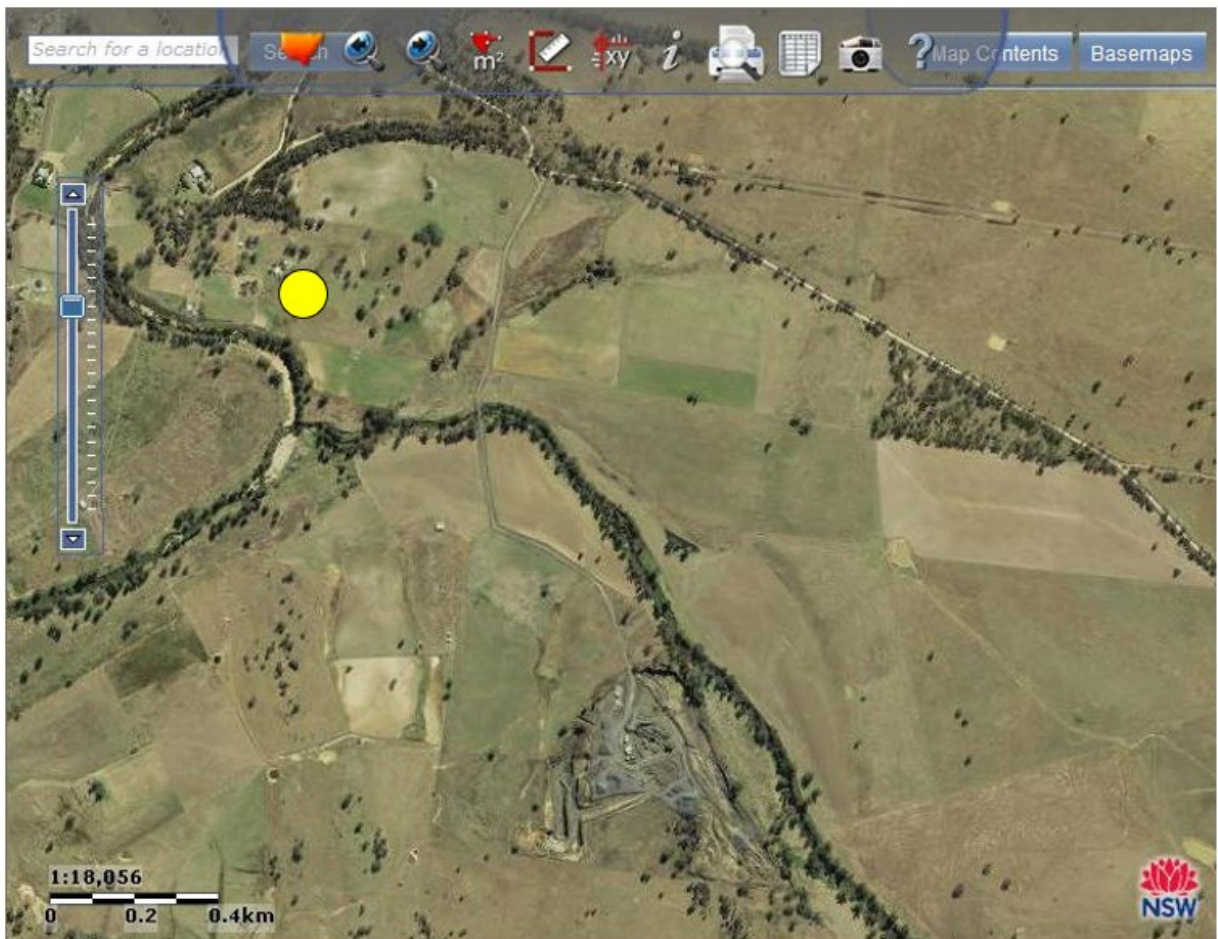
(b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 2187.2-2006.

EPA ID (Shot Number)	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				
No blasts undertaken from the 12/10/2023 through to the 6/11/2023											
BQ-2023-03	Per Blast	11/10/2023	11/10/2023	Oct 2023	09:19	107dBL	3.73mm/s	115	5	YES	
BQ-2023-02	Per Blast	2/6/2023	2/6/2023	June 2023	09:34	109.2dBL	1.37mm/s	115	5	YES	
BQ-2023-01	Per Blast	2/6/2023	2/6/2023		09:20	105.6dBL	0.19mm/s	115	5	YES	
BQ-2022-01	Per Blast	16/8/2022	16/8/2022		11:09	102dBL	1.59mm/s	115	5	YES	
BQ-2021-01	Per Blast	01/03/2021	1/3/2021		15:15	No trigger	No trigger	115	5	YES	
BQ-2019-01	Per Blast	26/2/2019	26/2/2019		09:36	110 dBL	0.99 mm/s	115	5	YES	
BQ-2018-01	Per Blast	23/07/2018	23/07/2018		13:51	No trigger	No trigger	115	5	YES	
BQ-2017-03	Per Blast	19/09/2017	19/09/2017		09:31	No trigger	No trigger	115	5	YES	
BQ-2017-02	Per Blast	7/7/2017	10/07/2017		12:05	113.1dBL	1.86mm/s	115	5	YES	
BQ-2017-01	Per Blast	30/01/2017	03/02/2017		14:40	No trigger	No trigger	115	5	YES	
BQ-2016-02	Per Blast	18/08/2016	Yes		14:14	No trigger	No trigger*	115	5	YES	
BQ-2016-01	Per Blast	16/02/2016	1/3/2016		10:59	No trigger	No trigger	115	5	YES	

Actual results for air blast and ground vibration cannot be supplied for the above blasts where the blast did not trigger the blast monitor. The trigger levels set on the blast monitors for air blast were 100dbl and ground vibration 0.5 mm/s.

Beryl Quarry- Blast Monitoring Location

Blast Monitoring Location 



Blast Monitoring Results - Corrections Log

Details of corrections made to published data due to incorrect or misleading data

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