



Culcairn Quarry

Environmental Monitoring Report

February 2021

Published: February 2021



Culcairn Quarry Environmental Monitoring Report

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 26 (EPL 26 – Boral Culcairn Quarry)

This report provides environmental monitoring data for Culcairn Quarry for the period March 2016 to February 2021.

Culcairn Quarry Information	
Premise Details	Boral – Culcairn Quarry
Address	Weeamera Road, Culcairn NSW 2660
Licensee	Boral Resources (Vic.) Pty Limited
EPL No	26
EPL Location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31288&SYSUID=1&LICID=26

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

- Blasting
- Water Monitoring

Blasting

Blast monitoring is conducted as per condition L4.8 of EPL 26. The blasting monitoring results are summarised below.

Monitoring Period:	March 2016 – February 2021
Licensee:	Culcairn Quarry
Licensee Address:	Weeamera Road, Culcairn NSW 2660
EPL No:	26

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Qualifications related to blasting:

L4.1 The 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.

L4.2 The overpressure level from blasting operations at the premises must not exceed 120 dB (Lin Peak) at any time at any noise sensitive locations.

L4.3 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.

L4.4 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 percent of the total number of blasts over each reporting period.

Note: Error margins associated with any monitoring equipment used to measure the above are not to be taken into account in determining whether or not the limit has been exceeded.

L4.5 Blasting at the premises is limited to 1 blast on each day on which blasting is permitted.

L4.6 Blasting operations at the premises may only take place between 10:00am-3:00pm Monday to Friday and not during periods of inversions. (Where compelling safety reasons exist, the Authority may permit a blast to occur outside the abovementioned hours. Prior written (or facsimile) notification of any such blast must be made to the Authority).

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Results							
Monitor Location	Blast Date	Date Results Received	Blast Time	Ground Vibration Result	Ground Vibration Compliant	Overpressure Result	Over-pressure Compliant
A	20/1/21	20/1/21	12:19	1.0 mm/s	Y	105.3 db(A)	Y
A	7/10/20	7/10/20	12:23	0.10 mm/s	Y	80.6 db(A)	Y
A	15/7/20	15/7/20	12:05	0.77 mm/s	Y	102.7 db(A)	Y
A	13/5/20	13/5/20	12:18	0.876 mm/s	Y	100.8 db(A)	Y
A	14/4/20	14/4/20	15:17	1.496 mm/s	Y	97.7 db(A)	Y
A	4/3/20	4/3/20	12:31	Not Triggered	Y	Not Triggered	Y
A	13/11/19	13/11/19	12:02	Not Triggered	Y	Not Triggered	Y
A	2/07/19	2/07/2019	12:31	1.41 mm/s	Y	107 db(A)	Y
A	6/03/19	6/03/2019	12:56	Not Triggered	Y	Not Triggered	Y
A	13/11/18	13/11/2018	13:07	Not Triggered	Y	Not Triggered	Y
A	26/9/18	26/9/18	12:43	Not triggered	Y	Not triggered	Y
A	20/8/18	20/8/18	13:48	Not triggered	Y	Not triggered	Y
A	18/6/18	18/6/18	13:00	0.773 mm/s	Y	109.9 db(A)	Y
A	6/4/18	6/4/2018	12:12	Not triggered	Y	Not triggered	Y
A	6/3/18	6/3/2018	11:00	Not triggered	Y	Not triggered	Y
A	23/08/17	23/8/2017	-	Not Triggered	Y	Not Triggered	Y
A	23/05/17	23/05/17	13:25	Not Triggered	Y	Not Triggered	Y
A	19/04/17	19/04/17	-	Not Triggered	Y	Not Triggered	Y
A	12/04/16	12/04/16	15:00	Not Triggered	Y	Not Triggered	Y

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Water Monitoring

Water quality monitoring is conducted as per condition M2.1 of EPL 26. The water quality results for the reporting period are tabled below.

Monitoring Period: February 2021
 Licensee: Culcairn Quarry
 Licensee Address: Weeamera Road, Culcairn NSW 2660
 EPL No: 26

L2.4 Water and/or Land Concentration Limits POINT 1

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	Visible				None visible
pH	pH				6.5 to 8.5
Total suspended solids	milligrams per litre				50

Monitoring Frequency - Special Frequency 1 requires sampling to be undertaken such that the results of the water quality monitoring are reported to the landowner prior to discharging quarry void water at the licensed discharge point in the southwest paddock.

Results – Point 1 Discharge point for the dewatering of the quarry void. Discharge point located at 55H 0496690 (Easting) and 6046462 (Northing).							
Sampling Date	Results Received	pH	Compliant?	Total Suspended Solids (mg/L)	Compliant?	Oil & Grease (mg/L)	Compliant?
18/7/17	19/7/17	8.5	Yes	<5	Yes	None Visible	Yes

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Culcairn Quarry Monitoring Locations

Blast Monitoring Location **A**

Water Monitoring Location **B**

