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# Environmental Monitoring Report

Blast Monitoring

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## Shadforth Quarry

March 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 4988 (EPL 4988 – Boral Shadforth Quarry Quarry)

This report provides environmental monitoring data for Shadforth Quarry for the period October 2015 to present day. This report is reviewed monthly during each reporting period and updated if required.

| Shadforth Quarry Information |   |
|------------------------------|---|
| Premise Details              | Boral - Shadforth Quarry  |
| Address                      | Millthorpe Road, Shadforth NSW 2250   |
| Licensee                     | Boral Resources (Country) Pty Ltd   |
| EPL No                       | 4988  |
| EPL Location                 | <a href="https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=157360&amp;SYSUID=1&amp;LICID=4988">https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=157360&amp;SYSUID=1&amp;LICID=4988</a> |

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 L4 of EPL 4988. The blasting monitoring results are summarised below.

Monitoring Period: October 2015 – Present  
Licensee: Shadforth Quarry  
Licensee Address: Milthorpe Road, Shadforth NSW 2800  
EPL No: 4988

### **Qualifications related to blasting:**

Blasting activities at the premises are restricted to the following hours:

- a) Monday to Friday: 9 am to 3 pm; and
- b) at no time on Saturdays, Sundays or Public Holidays.

The frequency of blasting activities at the premises is restricted to the following:

- a) maximum of 2 blasts a day; and
- b) maximum of 5 blasts a week, averaged over a calendar year.

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.

The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:

- a) 5mm/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.

Airblast overpressure and ground vibration levels must be measured at 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.

There is one compliance monitor, located at the gate of the adjacent farmhouse.



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## Results

| Location   | Blast Date | Results Received | Blast Time | Overpressure Result (dB) | GV Compliant | Ground Vibration Result (mm/s) | OP Compliant |
|--|------------|------------------|------------|--------------------------|--------------|--------------------------------|--------------|
| Farm gate  | 16/01/17   | 17/01/17         | 13:15      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 03/05/17   | 04/05/17         | 13:00      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 04/07/17   | 05/07/17         | 10:58      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 16/10/17   | 17/10/17         | 12:55      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 22/01/18   | 23/01/18         | 12:16      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 27/04/18   | 28/04/18         | 13:32      | 114                      | Yes          | 0.803                          | Yes          |
| Dust Monitor   | 27/04/18   | 28/04/18         | 13:32      | 105.5                    | Yes          | 4.55                           | Yes          |
| Farm gate  | 10/08/18   | 11/08/18         | 12:35      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 04/02/19   | 05/02/19         | 14:42      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 25/07/19   | 26/07/19         | 12:53      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 01/10/19   | 02/10/19         | 12:20      | 114                      | Yes          | 0.684                          | Yes          |
| Farm gate  | 13/01/20   | 14/01/20         | 11:52      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 12/02/20   | 12/02/20         | 12:33      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 05/06/20   | 05/06/20         | 13:17      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 10/08/20   | 10/08/20         | 14:36      | 114                      | Yes          | 0.773                          | Yes          |
| Farm gate  | 26/10/20   | 26/10/20         | 12:16      | 112                      | Yes          | 0.684                          | Yes          |
| Farm gate  | 14/12/20   | 14/12/20         | 12:52      | No trigger               | Yes          | No trigger                     | Yes          |
| Farm gate  | 16/04/21   | 16/04/21         | 13:07      | 105.5                    | Yes          | 0.89                           | Yes          |
| Farm gate  | 05/07/21   | 05/07/21         | 13:07      | 98.7                     | Yes          | 0.66                           | Yes          |
| Farm gate  | 22/06/22   | 05/04/23         | 14:00      | 105.5                    | Yes          | 0.58                           | Yes          |
| Farm Gate  | 26/09/22   | 05/04/23         | 11:50      | 111.2                    | Yes          | 0.66                           | Yes          |
| Farm gate  | 17/03/23   | 05/04/23         | 12:40      | 102.8                    | Yes          | 1.14                           | Yes          |
| Farm gate  | 2/08/23    | 02/08/23         | 12:59      | 109.9                    | Yes          | 0.52                           | Yes          |
| Farm gate  | 12/09/23   | 12/09/23         | 12:52      | 104.9                    | Yes          | 0.53                           | Yes          |
| No blasts undertaken from the 13/9/2023 through to the 2/04/2024 |            |                  |            |                          |              |                                |              |

\* Less than 5% of the total number of blasts carried out on the premises during respective reporting period.

Note: "No Trigger" refer to the blast monitors not being triggered due to Trigger levels set on the Blast Monitor for Airblast were 100 dB and Ground Vibration 0.51 mm/s

Blast data indicates compliance against the set criteria.



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## Shadforth Quarry Blast Monitoring Location





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## Blast Monitoring Results - Corrections Log

Details of corrections made to published data due to incorrect or misleading data<sup>3.7.7</sup>

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