



Macksville Quarry

Environmental Monitoring Report

January 2020

Date Published: Feb 2020



Macksville 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 20555 (EPL 20555 – Boral Macksville Quarry)

This report provides environmental monitoring data for Macksville Quarry for the period of January 2016 to January 2020.

Macksville Quarry Information	
Premise Details	Boral – Macksville Quarry
Address	Pacific Highway, Macksville, NSW, 2447
Licensee	Boral Resources (Country) Pty Limited
EPL No	20555
EPL Location	https://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=44304&SYSUID=1&LICID=20555

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

- Blasting
- Water Monitoring

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Blasting

Blast monitoring is conducted as per condition L5.4 of EPL 20555. The blasting monitoring results are summarised below.

Monitoring Period: January 2016 to January 2020
 Licensee: Macksville Quarry
 Licensee Address: Pacific Highway, Macksville, NSW, 2447
 EPL No: 20555

Qualifications related to blasting:

The air blast 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.

Air blast 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.

Results							
Monitor Location	Blast Date	Results Received	Blast Time	Ground Vibration (mm/s)	Ground Vibration Compliant	Overpressure Result (dbl)	Over-pressure Compliant
A	4/12/2019	4/12/2019	12:17	1.873	Yes	117 #	No
A	11/12/2018	11/12/2018	09:07	3.311	Yes	115	Yes
A	22/02/2018	22/02/2018	11:20	1.275	Yes	113.6	Yes
A	27/11/2018	27/11/2018	13:52	0.3	Yes	100	Yes
A	07/09/2017	20/09/2017	09:10	1.40	Yes	112.60	Yes
A	16/05/2017	17/05/2017	11:32	0.171	Yes	109.9	Yes
A	06/04/2017	06/04/2017	09:49	No trigger	Yes	No trigger	Yes
A	07/02/2017	08/02/2017	10:08	No trigger	Yes	No trigger	Yes
A	30/11/2016	1/12/2016	14:05	0.889	Yes	50.1	Yes
A	28/10/2016	02/11/2016	09:30	No trigger	Yes	No trigger	Yes
A	28/09/2016	11/10/2016	10:09	No trigger	Yes	No trigger	Yes
A	12/07/2016	14/07/2016	10:26	0.254	Yes	109.9	Yes
A	12/05/2016	13/05/2016	09:00	No trigger	Yes	No trigger	Yes
A	12/05/2016	13/05/2016	10:15	No trigger	Yes	No trigger	Yes
A	27/04/2016	29/04/2016	12:49	1.98	Yes	97.5	Yes
A	15/03/2016	21/04/2016	11:47	1.78	Yes	112.3	Yes

There were no blasts for this reporting period.

The blast on the 4/12/2019 had an overpressure result above the 115 dB peak, but was below the 120 dB peak.

Macksville Quarry is compliant with the blast monitoring conditions and limits in EPL 20555.

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Water Monitoring

Water quality monitoring is conducted as per condition M2.1 of EPL 20555. The water quality results for the reporting period are tabled below.

Sample Period: January 2016 to January 2020
 Licensee: Macksville Quarry
 Licensee Address: Pacific Highway, Macksville, NSW, 2447
 EPL No: 20555

Qualifications related to Water

Rainfall runoff from all disturbed areas of the premises arising from up to 74.9mm (up to five day event duration) must, prior to discharge from the premises, be captured and treated to the standard set out in condition L2 below.

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	milligrams per litre				10
pH	pH				6.5 - 8.5
Total suspended solids	milligrams per litre				50

Monitoring Frequency – Sampling once <24 hours prior to actively emptying the ponds and during each discharge event arising from rainfall less than 74.9mm falling in total over a period of up to five days duration.

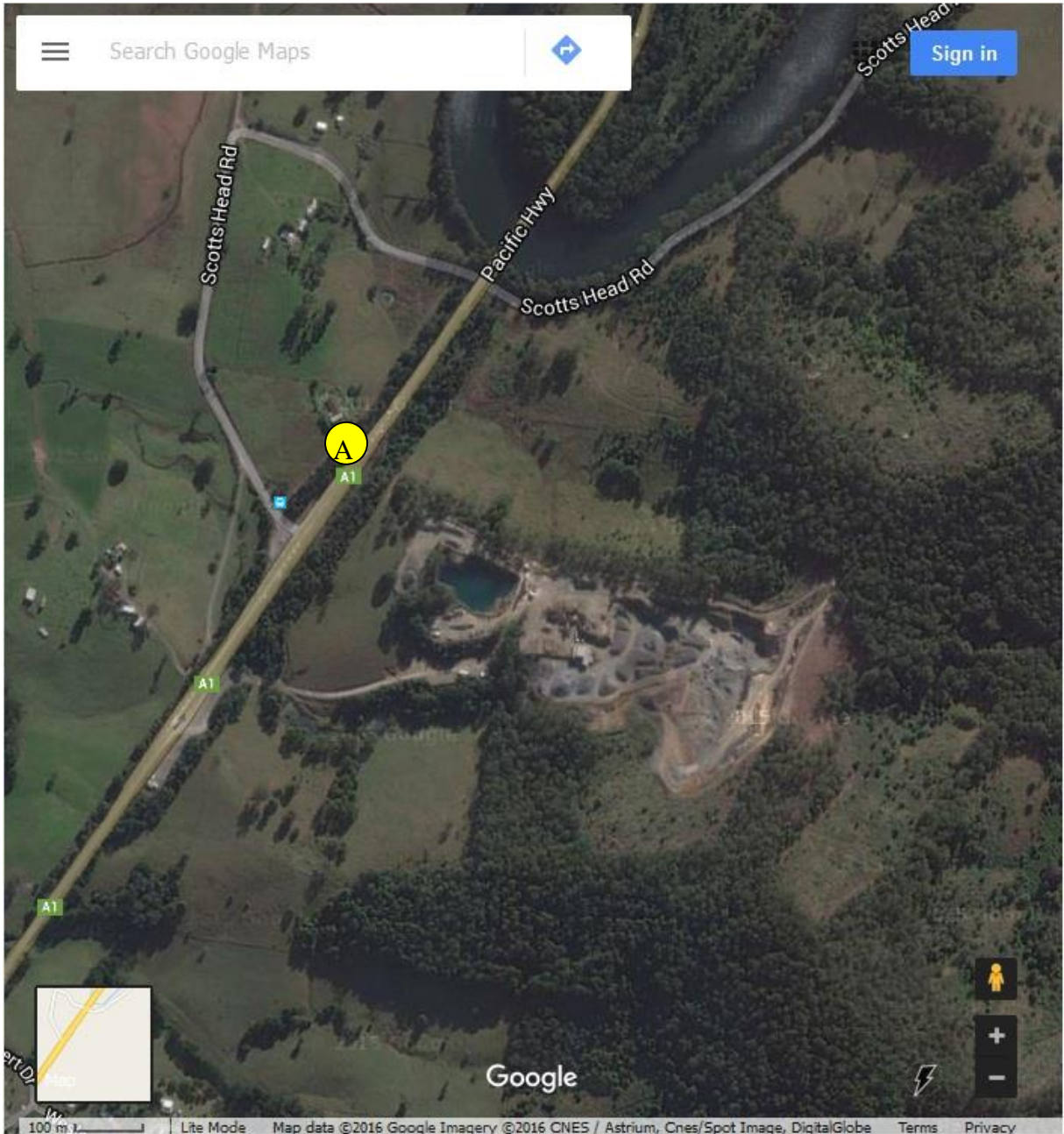
Results – Point 1 (End of stormwater settlement dam located in the north west corner of Lot 103 DP 1181639)							
Sampling Date	Results Received	pH	Compliant?	Total Suspended Solids (mg/L)	Compliant?	Oil & Grease (mg/L)	Compliant?
N/A							

No water was discharged during the reporting period.

The Macksville quarry is compliant with the water monitoring conditions in the Environmental Protection Licence.

Macksville Quarry Monitoring Locations

Blast Monitoring Location



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Water Quality Monitoring Location

