



Currabubula Quarry

Environmental Monitoring Report

September 2020

Published: Nov 2020



Currabubula 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 5846 (EPL 5846 – Boral Currabubula Quarry)

This report provides environmental monitoring data for Currabubula Quarry for the period February 2016 to September 2020.

Currabubula Quarry Information	
Premise Details	Boral – Currabubula Quarry
Address	Werris Creek Rd, Currabubula NSW 2342
Licensee	Boral Resources (Country) Pty Ltd
EPL No	5846
EPL Location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=83771&SYSUID=1&LICID=5846

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

- Blasting,
- Surface Water.

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Blasting

Blast monitoring is conducted as per condition L6.2 of EPL 5846. The blasting monitoring results are summarised below.

Sample Period: September 2020
 Licensee: Currabubula Quarry
 Licensee Address: Werris Creek Rd, Currabubula NSW 2342
 EPL No: 5846

Qualifications related to blasting:

L4.1 The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time and at any point within 30 metres of any non-project related residential building or other noise sensitive location. 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.

L4.2 The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than five per cent of the total number of blasts over each reporting period at any time and at any point within 30 metres of any non-project related residential building or other noise sensitive location. 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.

L4.3 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time and at any point within 3.5 metres of any non-project related residential building or other noise sensitive location. 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.

L4.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec for more than five per cent of the total number of blasts over each reporting period at any point within 3.5 metres of any non-project related residential building or other noise sensitive location. 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.

L4.6 Blasting in or on the premises must only be carried out between 0900 hours and 1500 hours, Monday to Friday, and 0900 hours and 1400 hours on Saturday. Blasting in or on the premises must not take place on Sundays or Public Holidays without the prior approval of the EPA.

L4.8 Blasting at the premises is limited to 1 blast on each day on which blasting is permitted.

Results – Monitoring Location (A), shown on Page 6 of this report.

Blast Date	Time	Date Results Received	Ground Vibration Result	GV Compliant	Overpressure Result	OP Compliant
12-Aug-2020	9:35	12-Aug-2020	0.22	Yes	104.2	Yes
07-Jul-2020	12:36	07-Jul-2020	0.7812	Yes	99.28	Yes
04-Mar-2020	09:52	04-Mar-2020	1.08 mm/s	Yes	98.76	Yes
10-Dec-2019	10:20	10-Dec-2019	0.5 mm/s	Yes	100	Yes
17-Sep-2019	09:27	17-Sep-2019	0.9062	Yes	97.52	Yes

1/4/2019	14:52	1/4/2019	No Trigger	Yes	No Trigger	Yes
15/2/2019	9:00	15/2/2019	No Trigger	Yes	No Trigger	Yes
8/8/2018	21:55	8/8/2018	1.08 mm/s	Yes	97.16	Yes
1/5/2018	09:50	2/5/2018	1.195 mm/s	Yes	84.04 dBL	Yes

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21/11/2017	09:44	21/11/2017	1.01mm/s	Yes	96.98dB	Yes
12/04/2017	09:42	13/04/2017	1.222 mm/s	Yes	81.94 dBL	Yes
16/08/2016	13:12	17/08/2016	No Trigger	Yes	No Trigger	Yes
08/08/2017	09:31	08/08/2017	No Trigger	Yes	No Trigger	Yes
21/06/2016	10:59	22/06/2016	No Trigger	Yes	No Trigger	Yes

Surface Water

Surface water monitoring is conducted as per condition M2.1 of EPL 5846. The surface water monitoring results are summaries below.

Sample Period: September 2020
 Licensee: Currabubula Quarry
 Licensee Address: Werris Creek Rd, Currabubula NSW 2342
 EPL No: 5846

Qualifications related to Surface Water

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

L2.5 The Total Suspended Solids concentration limits specified in table L2.4 can be exceeded for water discharged from the sediment basins provided that:

- (a) the discharge occurs solely as a result of rainfall measured at the premises that exceeds 39.2 millimetres over any consecutive 5 day period immediately prior to the discharge occurring; and
- (b) all practical measures have been implemented to dewater all sediment dams within 5 days of rainfall such that they have sufficient capacity to store run off from a 39.2 millimetre, 5 day rainfall event.

Note: 39.2 mm equates to the 5 day 90th percentile rainfall depth for Tamworth sourced from Table 6.3a Managing Urban Stormwater: Soils and Construction Volume 1: 4th edition, November 2004.

Monitoring Frequency - as soon as practicable after overflow commences and in any case not more than 12 hours after any overflow commencing and prior to any controlled discharge from the sedimentation basins to demonstrate compliance with the concentration limits defined in condition L2.

Results – Point 1 (Outlet of Dam 1 – West of Stockpile Area)							
Sampling Date	Results Received	pH (pH Units)	pH Compliant?	Oil & Grease (mg/L)	Oil & Grease Compliant?	Total Suspended Solids (mg/L)	Total Suspended Solids Compliant?

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None	None	-	-	-	-	-	-
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No surface water discharge occurred during the reporting period and therefore no sampling was conducted.

Historical Results – Point 1 (Outlet of Dam 1 – West of Stockpile Area)							
Sampling Date	Results Received	pH (pH)	pH Compliant?	Oil & Grease (mg/L)	Oil & Grease Compliant?	Total Suspended Solids (mg/L)	Total Suspended Solids Compliant?
4/08/2020	4/8/2020	8.0	Yes	<5	Yes	41.5	Yes
18/02/2020	18/02/2020	8.3	Yes	<5	Yes	160	Yes
12/02/2020	12/02/2020	7.96	Yes	0.6	Yes	194	Yes
1/11/2016	8/11/2016	7.4	Yes	<5	Yes	10	Yes
23/9/2016	5/10/2016	6.8	Yes	<5	Yes	5	Yes
15/9/2016	22/9/2016	7.7	Yes	<5	Yes	136	Yes*
7/9/2016	14/9/2016	7.2	Yes	<5	Yes	22	Yes
5/9/2016	9/9/2016	7.2	Yes	<5	Yes	105	Yes*
25/08/2016	29/08/2016	7.84	Yes	<5.0	Yes	150	Yes* *
1/08/2016	03/08/2014	7.00	Yes	0.8	Yes	13	Yes
15/07/2016	01/08/2016	7.1	Yes	1.0	Yes	49	Yes
11/07/2016	9/08/2016	6.9	Yes	<5.0	Yes	31	Yes
06/06/2016	28/06/2016	6.3	Yes***	1.0	Yes	87.0	Yes***

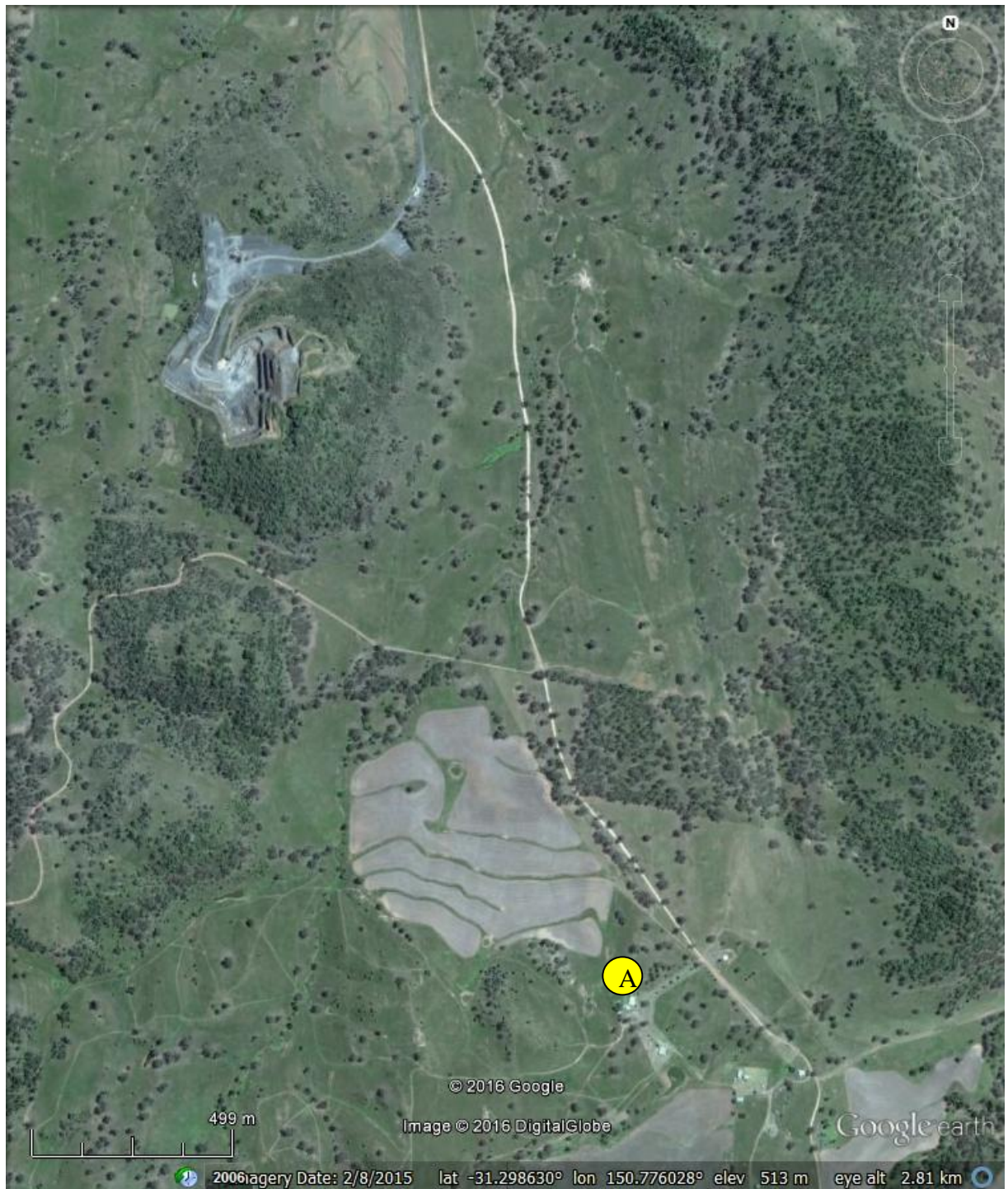
*The samples collected on 5/9/2016 and 15/9/2016 was after 42mm and 64mm of rain respectively in the five days prior to sampling, on both occasions the dam was overflowing.

**The sample collected on 25/08/2016 was completed after 50mm rain in the last 5 days before it overflowed.

*** There was 75mm of rainfall measured in the onsite rain gauge in the five days immediately prior to discharge from Monitoring Point 1 on the 6/6/2016.

Currabubula Quarry Monitoring Locations.

Blast Monitoring Location



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Surface Water Monitoring Location

