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Seaham Quarry

Environmental Monitoring Report

Blast Monitoring Data

February 2025

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 3956 (EPL: 3956 – Boral Seaham Quarry)

Seaham Quarry Information	
Premise Details	Boral – Seaham Quarry
Address	Italia Road, Seaham NSW 2324
Licensee	Boral Resources (NSW) Pty Ltd
EPL No	3956
EPL Location	ViewPOEOLicence.aspx (nsw.gov.au)
Date of dataset update	21/02/2025

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

- Blasting

Blast Monitoring

Blast monitoring is conducted as per condition M6 of EPL 3956.

Qualifications related to Blasting Activites

Extracted from EPL: 3956

L4 Blasting

- 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 percent of the total number of blasts over each reporting period, or one blast in each reporting period, whichever is the greater.
  - 120 dB (Lin Peak) at any time at any residence or noise sensitive location.
- 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.
  - 5mm/sec at any noise sensitive locations for more than five percent of the total number of blasts in the reporting period, or one blast in each reporting period, whichever is the greater.

M6 Blasting

M6.1 To determine compliance:

a) Airblast pressure and ground vibration must be measured at any residence or noise sensitive location that is likely to be most affected and is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive site and the licensee as to an alternative blasting level - for all blasts carried out in or on the premises; and

b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS2187.2-2006

* NOTE: Where no data has been published for a particular date there has been no blasting activity undertaken for that date

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TABLE 1: Seaham Quarry – Blast Monitoring Results

EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
SQ25-02	Per Blast	18/02/2025	15:04	104.2	0.25			Whitcombes	YES	
SQ25-01	Per Blast	05/02/2025	13:30	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-22	Per Blast	19/12/2024	14:30	88.0	0.41			Whitcombes	YES	
SQ24-21	Per Blast	03/12/2024	13:11	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-20	Per Blast	21/11/2024	12:06	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-18	Per Blast	14/10/2024	12:15	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-17	Per Blast	15/11/2024	14:23	100.0	0.12			Whitcombes	YES	
SQ24-16	Per Blast	24/10/2024	10:30	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-15	Per Blast	04/10/2024	11:00	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-14	Per Blast	20/09/2024	11:40	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-13	Per Blast	03/09/2024	12:59	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-12	Per Blast	23/08/2024	10:30	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-11	Per Blast	30/08/2024	12:29	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-10	Per Blast	05/08/2024	13:59	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-09	Per Blast	14/06/2024	11:17	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-08	Per Blast	30/05/2024	14:30	93.2	0.61			Whitcombes	YES	
SQ24-07	Per Blast	13/05/2024	13:00	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-06	Per Blast	24/04/2024	13:30	93.0	0.50			Whitcombes	YES	

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EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
SQ24-05	Per Blast	12/04/2024	13:30	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-04	Per Blast	22/03/2024	14:18	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-03	Per Blast	06/03/2024	12:01	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ24-02	Per Blast	16/02/2024	12:39	82.0	0.48			Whitcombes	YES	
SQ24-01	Per Blast	02/02/2024	11:45	No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-19	Per Blast	28/11/2023		97.7	0.44			Whitcombes	YES	
SQ23-18	Per Blast	15/11/2023		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-17	Per Blast	31/10/2023		94.4	0.59			Whitcombes	YES	
SQ23-16	Per Blast	11/09/2023		91.5	0.42			Whitcombes	YES	
SQ23-15	Per Blast	30/08/2023		99.2	0.12			Whitcombes	YES	
SQ23-14	Per Blast	18/08/2023		108.5	0.62			Whitcombes	YES	
SQ23-12	Per Blast	21/07/2023		101.5	0.20			Whitcombes	YES	
SQ23-13	Per Blast	10/07/2023		102.3	0.24			Whitcombes	YES	
SQ23-11	Per Blast	16/06/2023		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-09	Per Blast	26/05/2023		101.7	0.52			Whitcombes	YES	
SQ23-08	Per Blast	12/05/2023		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-10	Per Blast	02/05/2023		103	0.21			Whitcombes	YES	
SQ23-07	Per Blast	14/04/2023		93.1	0.63			Whitcombes	YES	
SQ23-06	Per Blast	24/03/2023		94.3	0.7			Whitcombes	YES	

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EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
SQ23-05	Per Blast	17/03/2023		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-04	Per Blast	10/03/2023		91.3	0.5			Whitcombes	YES	
SQ23-03	Per Blast	22/02/2023		88.4	0.87			Whitcombes	YES	
SQ23-02	Per Blast	08/02/2023		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ23-01	Per Blast	20/01/2023		89.2	0.67			Whitcombes	YES	
SQ22-24	Per Blast	19/12/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-23A	Per Blast	02/12/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-22A	Per Blast	12/11/2022		91.5	0.51			Whitcombes	YES	
SQ22-21	Per Blast	11/11/2022		94.3	1.07			Whitcombes	YES	
SQ22-20	Per Blast	04/11/2022		94.4	0.9355			Whitcombes	YES	
SQ22-19	Per Blast	28/10/2022		103.1	0.57			Whitcombes	YES	
SQ22-18	Per Blast	24/10/2022		93.1	0.62			Whitcombes	YES	
SQ22-17	Per Blast	14/10/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-16	Per Blast	21/09/2022		99.1	0.54			Whitcombes	YES	
SQ22-14	Per Blast	05/09/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-09	Per Blast	26/08/2022		101.8	0.1943			Whitcombes	YES	
SQ22-15	Per Blast	12/08/2022		101.8	0.5978			Whitcombes	YES	
SQ22-13	Per Blast	20/07/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-12	Per Blast	01/07/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	

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EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
SQ22-11	Per Blast	15/06/2022		101.6	0.4			Whitcombes	YES	
SQ22-10	Per Blast	03/06/2022		95.5	0.4			Whitcombes	YES	
SQ22-07	Per Blast	13/05/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-08	Per Blast	26/04/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-06	Per Blast	20/04/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ22-05	Per Blast	28/03/2022		94.2	0.9			Whitcombes	YES	
SQ22-03	Per Blast	15/03/2022		87.3	0.7			Whitcombes	YES	
SQ22-04	Per Blast	09/03/2022		100.1	0.5			Whitcombes	YES	
SQ22-02	Per Blast	15/02/2022		95.8	1.2			Whitcombes	YES	
SQ22-01	Per Blast	31/01/2022		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-21	Per Blast	20/01/2022		87.3	1			Whitcombes	YES	
SQ21-20	Per Blast	13/12/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-19	Per Blast	30/11/2021		102	0.1			Whitcombes	YES	
SQ21-18	Per Blast	24/11/2021		102.1	1.3			Whitcombes	YES	
SQ21-17	Per Blast	17/11/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-16	Per Blast	27/10/2021		99.1	0.1			Whitcombes	YES	
SQ21-15	Per Blast	13/10/2021		86.7	1.2			Whitcombes	YES	
SQ21-14	Per Blast	10/09/2021		101	0.1			Whitcombes	YES	
SQ21-13	Per Blast	02/09/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	

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EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
SQ21-12	Per Blast	23/07/2021		103.9	1.948			Whitcombes	YES	
SQ21-11	Per Blast	07/07/2021		102.4	0.2089			Whitcombes	YES	
SQ21-10	Per Blast	23/06/2021		103.7	0.2207			Whitcombes	YES	
SQ21-06	Per Blast	07/06/2021		103.4	0.1912			Whitcombes	YES	
SQ21-07	Per Blast	13/05/2021		No Trigger	No Trigger	100	0.05	Whitcombes	YES	
SQ21-05	Per Blast	21/04/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-03	Per Blast	17/03/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-02	Per Blast	05/03/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ21-01	Per Blast	12/02/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-16	Per Blast	13/01/2021		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-14	Per Blast	8/12/2020		107.8	0.22			Whitcombes	YES	
SQ20-13	Per Blast	30/10/2020		101.3	0.26			Whitcombes	YES	
SQ20-12	Per Blast	9/10/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-11	Per Blast	23/09/2020		110.3	0.23			Whitcombes	YES	
SQ20-10	Per Blast	25/08/2020		102.8	0.16			Whitcombes	YES	
SQ20-09	Per Blast	29/07/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-08	Per Blast	6/07/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-07	Per Blast	6/07/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
SQ20-06	Per Blast	28/05/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	

EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
	Per Blast	12/03/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/02/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	3/02/2020		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	21/01/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	13/12/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	20/11/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/10/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	9/10/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	28/08/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	5/08/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/07/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	11/07/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	10/05/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	9/04/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/03/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	27/02/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	25/01/2019		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	3/12/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/10/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	

EPA ID (Blast #)	Monitoring Frequency	Blast Date	Blast Time	Blast Results		Trigger Level (dB)	Trigger Level (mm/s)	Sampling Location	Compliant Blast (Y/N)	Comments
				Overpressure (dB)	Ground Vibration (mm/s)					
	Per Blast	11/09/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	6/08/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/06/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	28/05/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	16/05/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	11/04/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	5/04/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	26/03/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	15/03/2018		No Trigger	No trigger	100	0.5	Whitcombes	YES	
	Per Blast	6/03/2018		No trigger	No trigger	100	0.5	Whitcombes	YES	
	Per Blast	23/01/2018		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	13/12/2017		No Trigger	No Trigger	100	0.5	Whitcombes	YES	
	Per Blast	14/11/2017		No trigger	No Trigger	100	0.5	Whitcombes	YES	

TABLE 2: Blast Monitoring Results – Corrections Log

Date of Data (sample Date)	Old Published Data	Corrected Data	Reason for Update / Correction	Update Person	Date corrected Data Published	Comments

Date of Data (sample Date)	Old Published Data	Corrected Data	Reason for Update / Correction	Update Person	Date corrected Data Published	Comments

Note: The table above details the corrections made to published data due to incorrect reporting or misleading published date

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