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# Seaham Quarry

## Environmental Monitoring Report

Surface Water Monitoring Data

April 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 3956 (EPL: 3956 – Boral Seaham Quarry)

<b>Seaham Quarry Information</b>	
Premise Details	Boral – Seaham Quarry
Address	Italia Road, Seaham NSW 2324
Licensee	Boral Resources (NSW) Pty Ltd
EPL No	3956
EPL Location	<a href="#">ViewPOEOLicence.aspx (nsw.gov.au)</a>
Date of dataset update	04/04/2024

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

- Surface Water



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## Surface Water Monitoring

Water quality monitoring is conducted as per condition M2 of EPL 3956.

### Qualifications related to Surface Water

Extracted from EPL: 3956

EPA Identification No.	Type of Monitoring Point	Location Description
1	Discharge to Waters Discharge Quality Monitoring	Discharge from Dam A2
2	Discharge to Waters Discharge Quality Monitoring	Discharge from Sediment Basin B4
3	Discharge to Waters Discharge Quality Monitoring	Discharge from Sediment Basin C2
4	Discharge to Waters Discharge Quality Monitoring	Discharge from Sediment Basin E1
5	Discharge to Waters Discharge Quality Monitoring	Discharge from Sediment Basin E2

Water Concentration Limits:

### Points 1,2,3,4,5

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 &/or none visible
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				30

Note: Points 2, 3, 4 and 5 were included in the concentration limits table in a variation to the licence in September 2023.



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Water monitoring requirements:

**POINT 1,2,3,4,5**

<b>Pollutant</b>	<b>Units of measure</b>	<b>Frequency</b>	<b>Sampling Method</b>
Oil and Grease	Visible	Daily during any discharge	Visual Inspection
pH	pH	Daily during any discharge	Probe
Total suspended solids	milligrams per litre	Daily during any discharge	Grab sample

Where no results are displayed, no discharges from the monitoring point occurred.





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Date	EPL ID 1			EPL ID 2			EPL ID 3			EPL ID 4			EPL ID 5			Comments
	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	
15/7/2022	NPH	22	NV													312mm of rainfall 2/7/23 to 15/07/23
14/7/2022	NPH	38	NV													312mm of rainfall 2/7/23 to 15/07/23
13/7/2022	NPH	49	NV													312mm of rainfall 2/7/23 to 15/07/24
11/7/2022	NPH	60	NV													312mm of rainfall 2/7/23 to 15/07/25
9/7/2022	NPH	92	NV													312mm of rainfall 2/7/23 to 15/07/26
8/7/2022	NPH	120	NV													312mm of rainfall 2/7/23 to 15/07/26
7/7/2022	NPH	124	NV													312mm of rainfall 2/7/23 to 15/07/26
6/7/2022	NPH	104	NV													312mm of rainfall 2/7/23 to 15/07/26
12/4/2022	NPH	13	NV													
11/4/2022	NPH	12	NV													
8/4/2022	NPH	29	NV													
31/3/2022	7.9	66	NV													
30/3/2022	7.8	56	NV													
25/3/2022	7.8	27	NV													



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Date	EPL ID 1			EPL ID 2			EPL ID 3			EPL ID 4			EPL ID 5			Comments
	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	
11/3/2022	7.5	37	NV													
10/3/2022	7.0	41	NV													
9/3/2022	7.5	7.6	NV													
8/3/2022	7.8	47	NV													
7/3/2022	6.9	43	NV													
4/3/2022	7.5	51	NV													
3/3/2022	NPH	135	NV													
2/3/2022	6.7	32	NV													
21/1/2022	6.9	9	NV													
20/1/2022	6.8	13	NV													
2/11/2021	NPH	14	NV													
30/3/2021	7.5	17	NV													
29/03/2021	7.6	22	NV													
26/03/2021	7.5	26	NV													
25/03/2021	7.5	18	NV													
24/03/2021	7.8	92	NV													
23/03/2021	7.9	85	NV													
22/03/2021	7.4	61	NV													
21/03/2021	7.3	46	NV													



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Date	EPL ID 1			EPL ID 2			EPL ID 3			EPL ID 4			EPL ID 5			Comments
	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	
20/03/2021	7.3	32	NV													
19/03/2021	7.3	39	NV													
18/03/2021	7	25	NV													
17/03/2021	7.0	32	NV													
16/03/2021	6.8	20	NV													
15/03/2021	7.4	6	NV													
29/07/2020	7	8	NV													
28/07/2020	7.3	9.5	NV													
27/07/2020	8.3	10	NV													
17/07/2020	7.5	11	NV													
16/07/2020	7.5	18	NV													
15/07/2020	8.3	10	NV													
28/02/2020	7.1	20	NV													
27/02/2020	7.0	18	NV													
26/02/2020	7.2	17	NV													
25/02/2020	7.1	16	NV													
24/02/2020	7.1	17	NV													
21/02/2020	7.9	11	NV													
20/02/2020	7.9	10	NV													





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Date	EPL ID 1			EPL ID 2			EPL ID 3			EPL ID 4			EPL ID 5			Comments
	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	pH	TSS (mg/L)	O&G	
19/02/2020	7.9	12	NV													
18/02/2020	8	5	NV													
17/02/2020	7.9	14	NV													
14/02/2020	8.0	10	NV													
13/02/2020	8.0	12	NV													
12/02/2020	8.1	22	NV													
11/02/2020	7.7	17	NV													

Notes:

NV = Not Visible

**TABLE 2: Surface Water 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

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



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FIGURE 1 Seaham Quarry- Surface Water Monitoring Locations

Seaham Quarry – Water Discharge Monitoring Locations



Water Discharge 1 (A2 Dam)	EPA ID 1	-32.681245	151.789430
Water Discharge 2 (Basin B4)	EPA ID 2	-32.676472	151.794833
Water Discharge 3 (Basin C2)	EPA ID 3	-32.680100	151.798745
Water Discharge 4 (Basin E1)	EPA ID 4	-32.680455	151.791851
Water Discharge 5 (Basin E2)	EPA ID 5	-32.679933	151.792793